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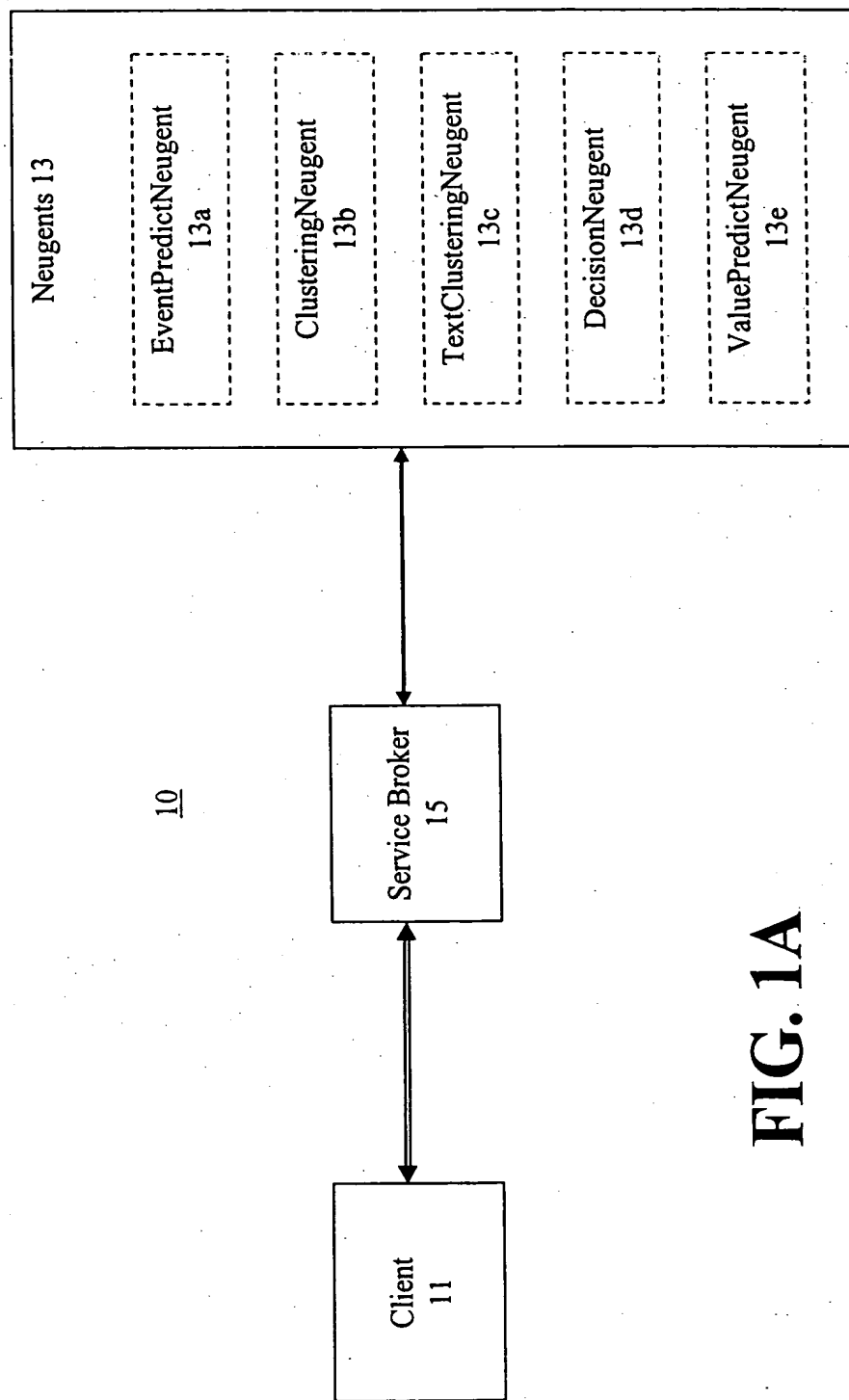


FIG. 1A

**FIG. 1B**

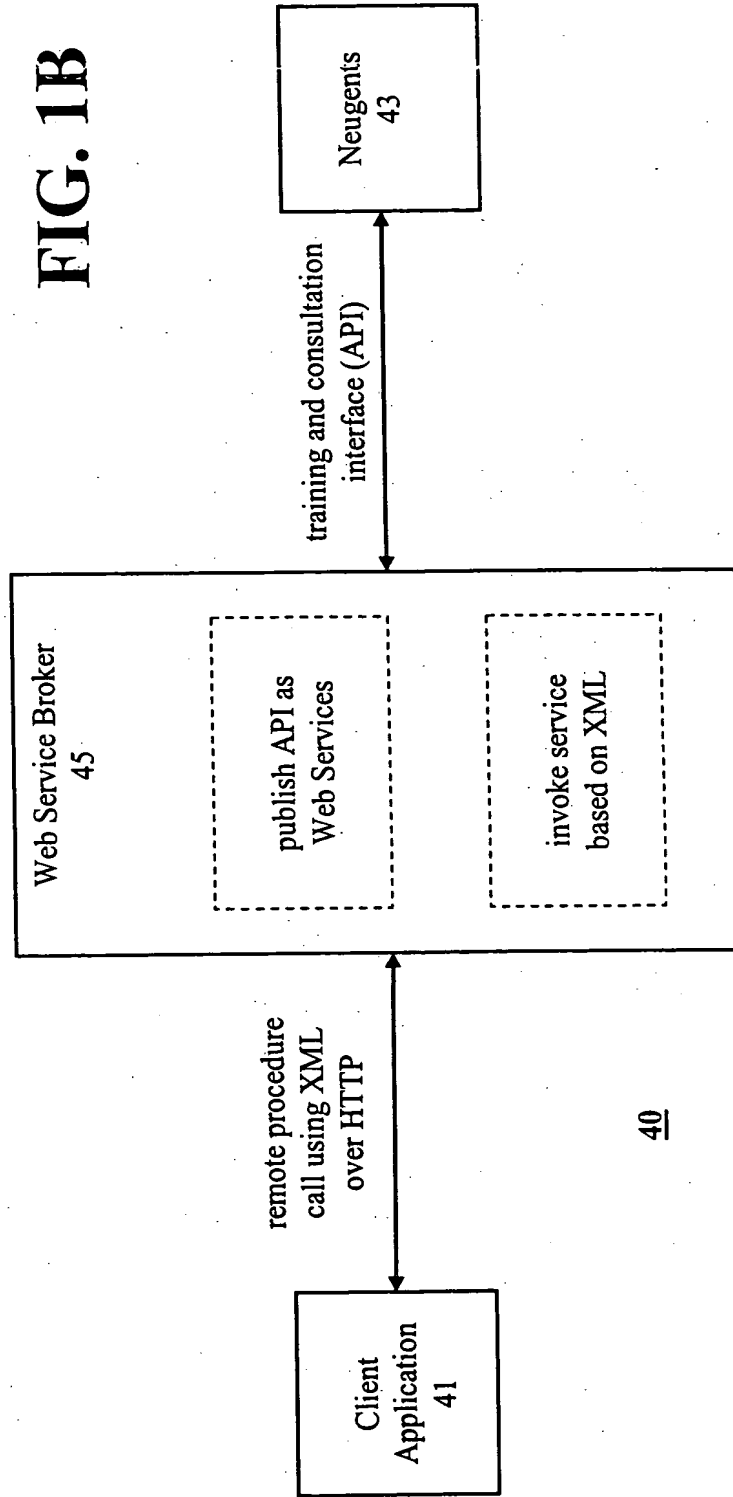


FIG. 2A

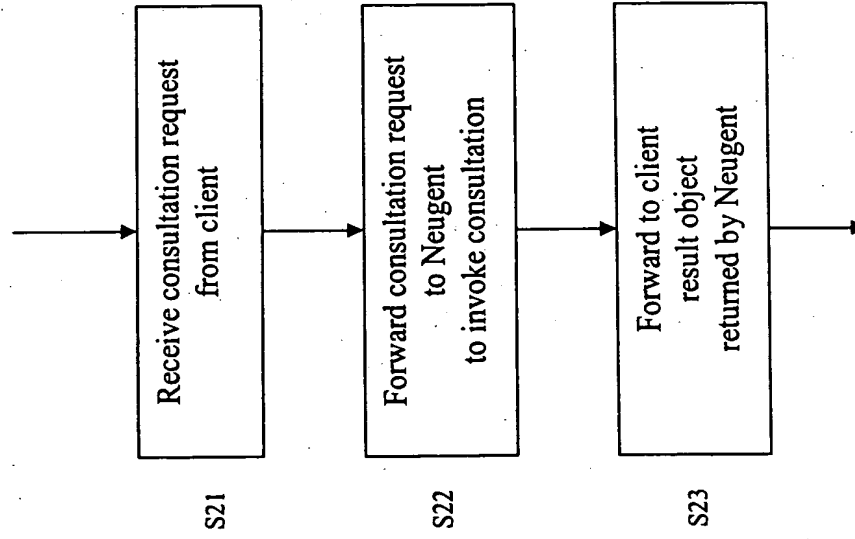
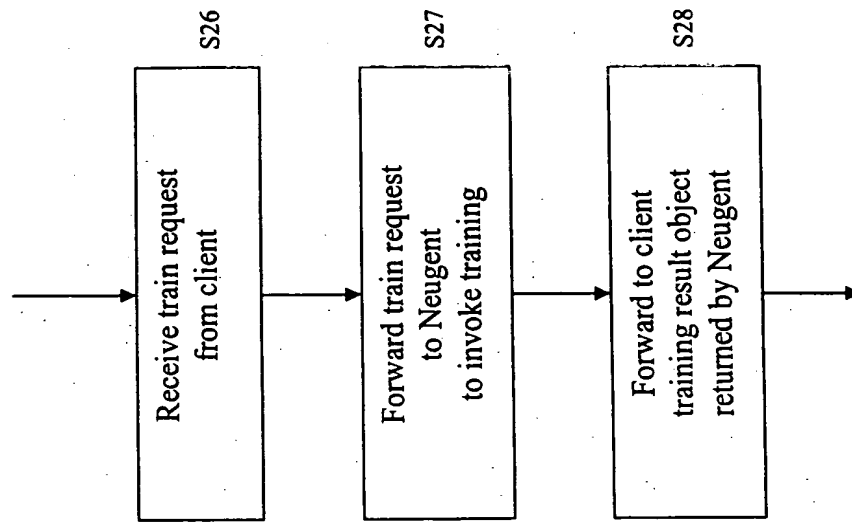
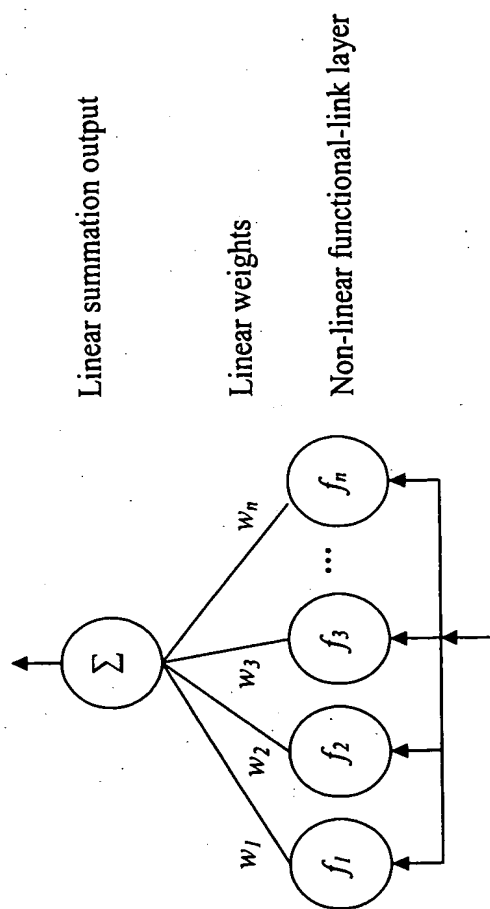


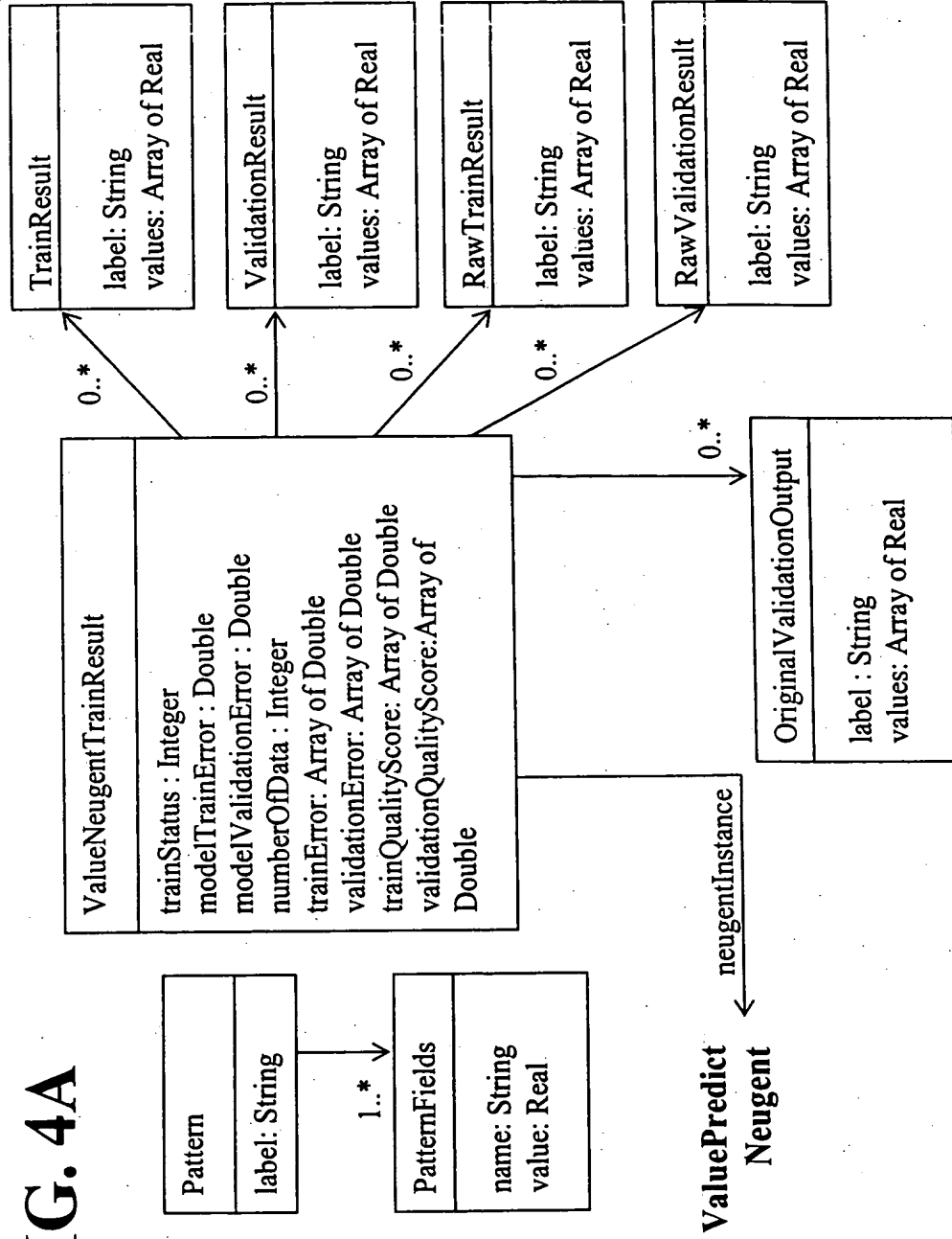
FIG. 2B



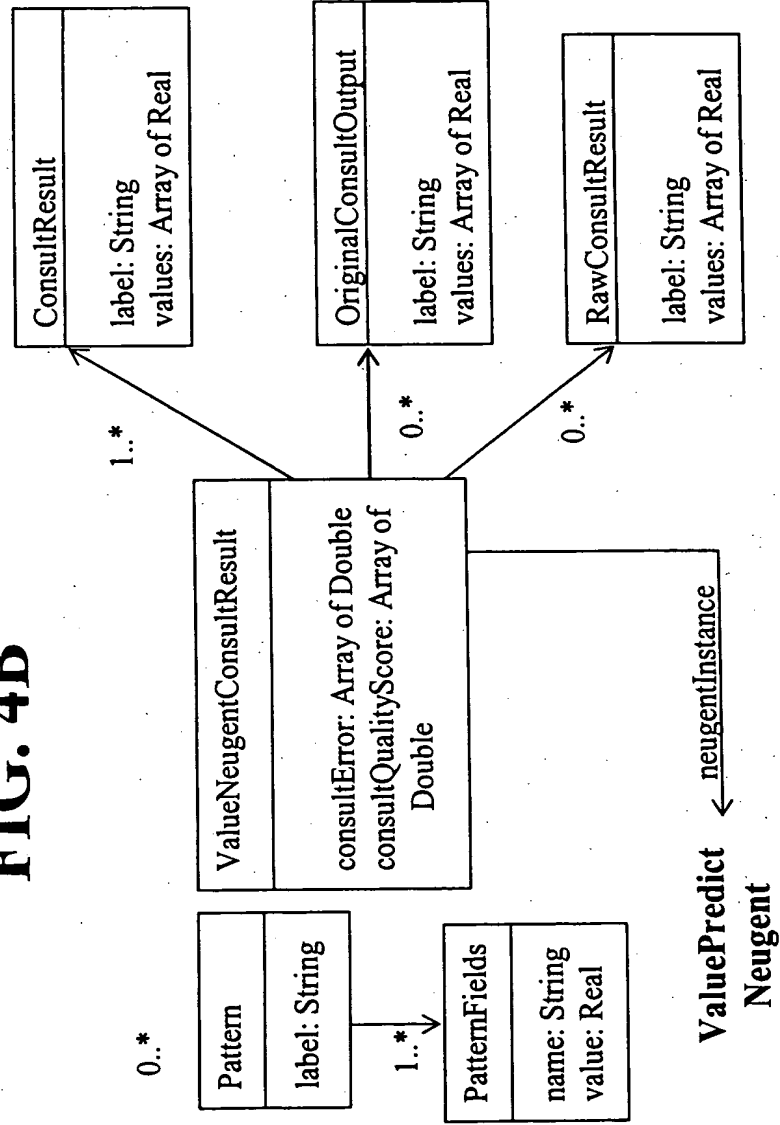


**FIG. 3**

# FIG. 4A



# FIG. 4B



## ClusteringNeugent

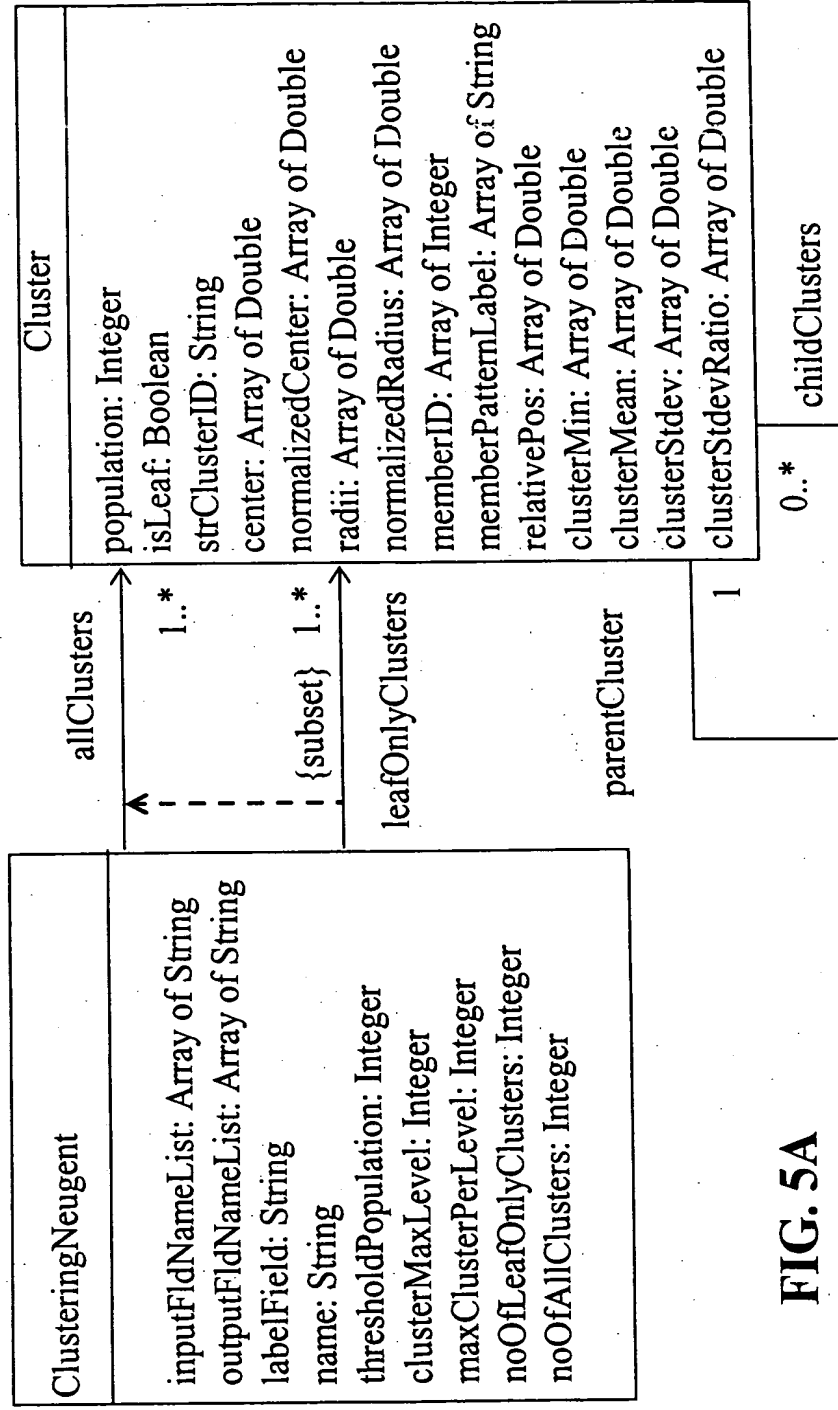
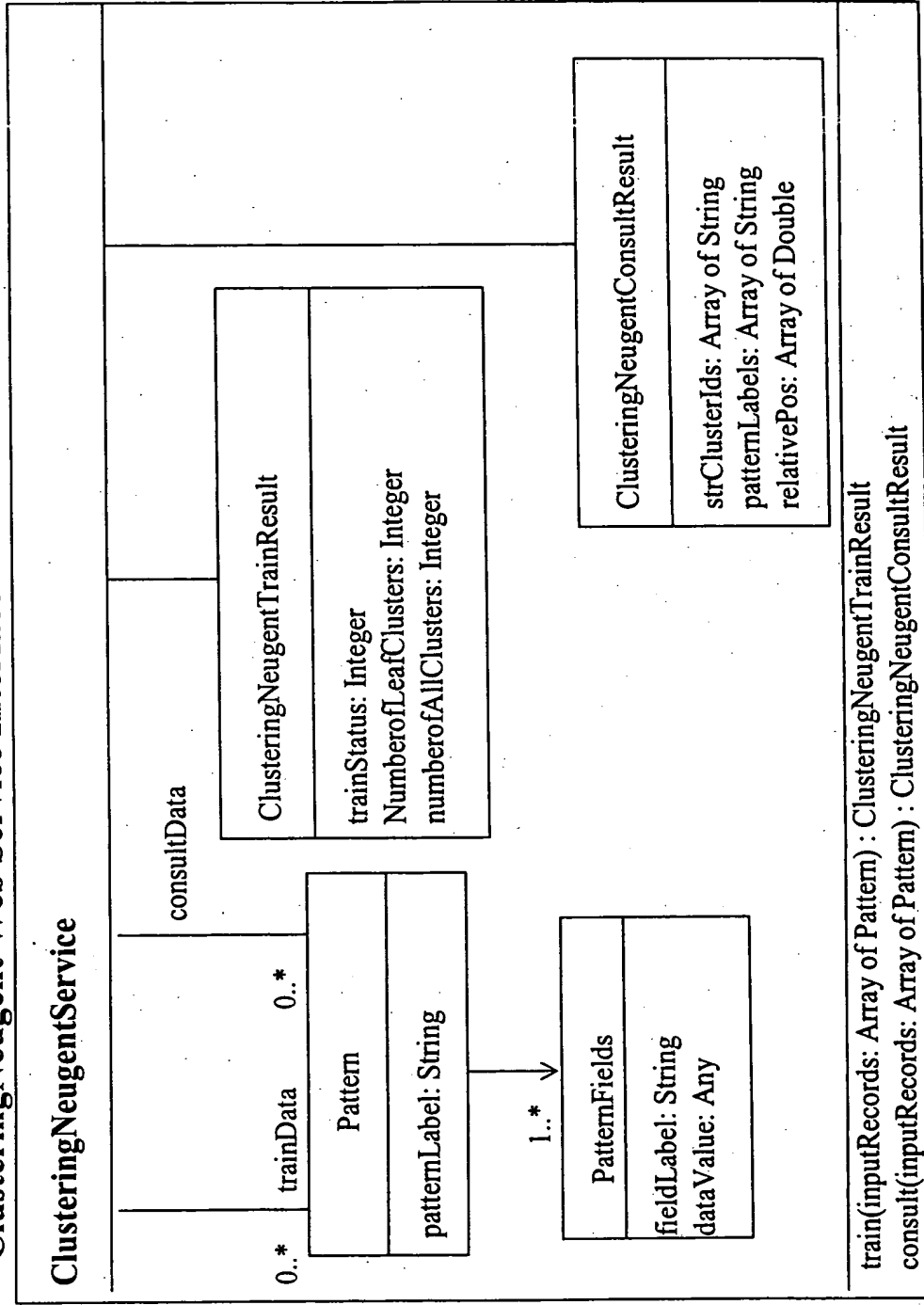


FIG. 5A



FIG. 5B

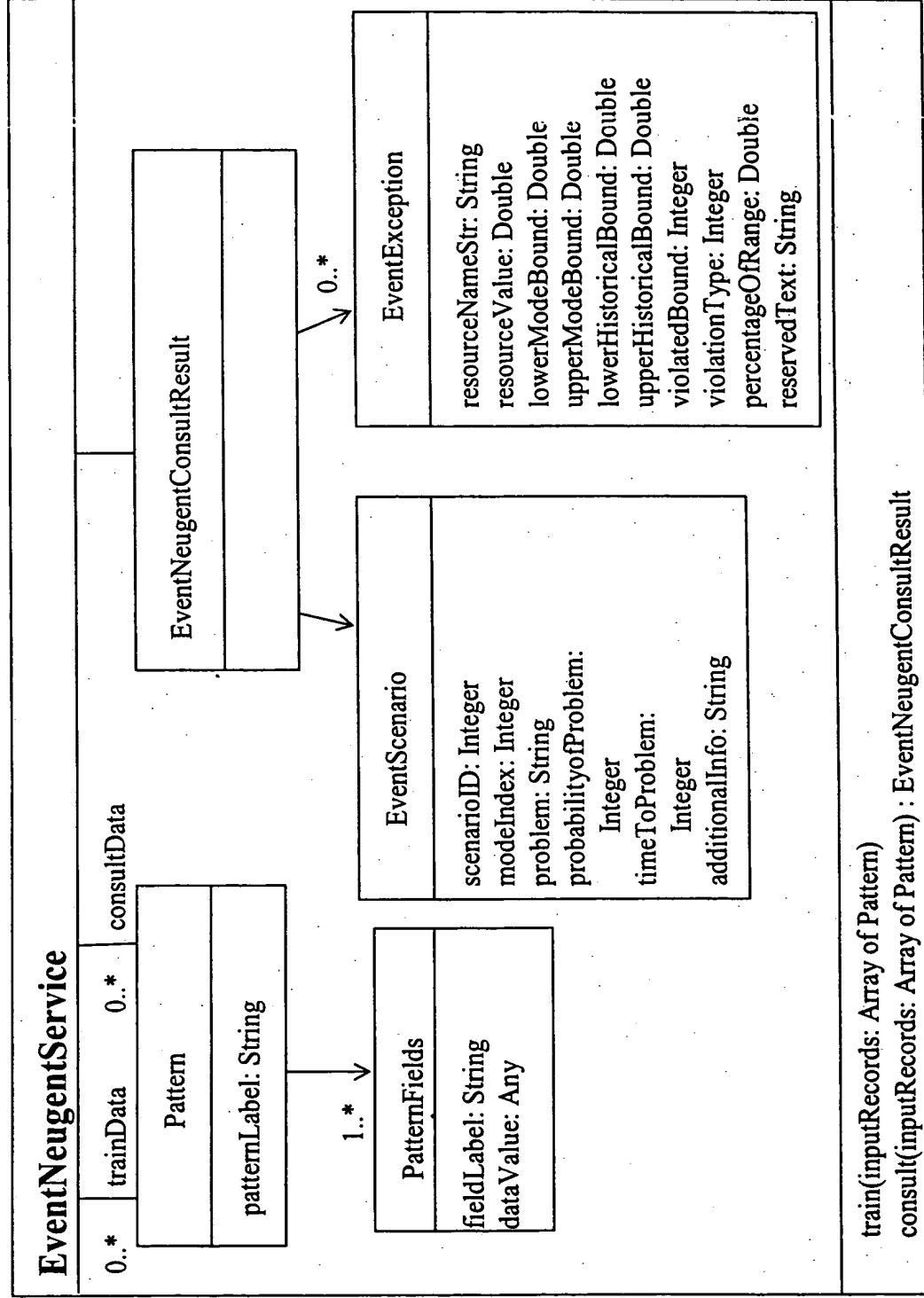
# ClusteringNeugent Web Service Interface

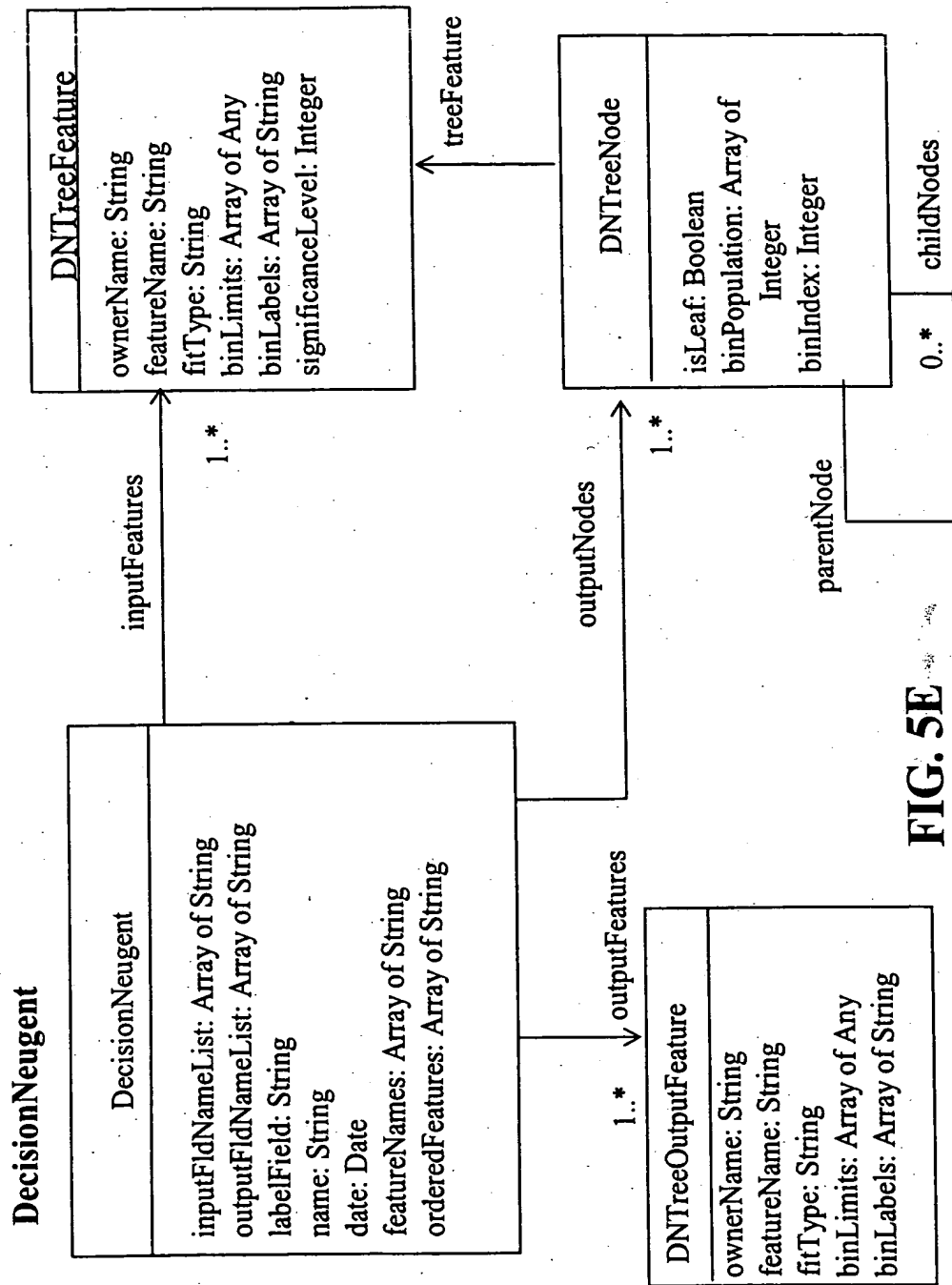


EventPredictNeugent

EventPredictNeugent
inputFldNameList: Array of String labelField: String name: String rules: Array of String events: Array of String timeBand: Integer noOfDataGoingBack: Integer noOfDataPredict: Integer

FIG. 5C





**FIG. 5E**

# DecisionNeugent Web Service Interface

FIG. 5F

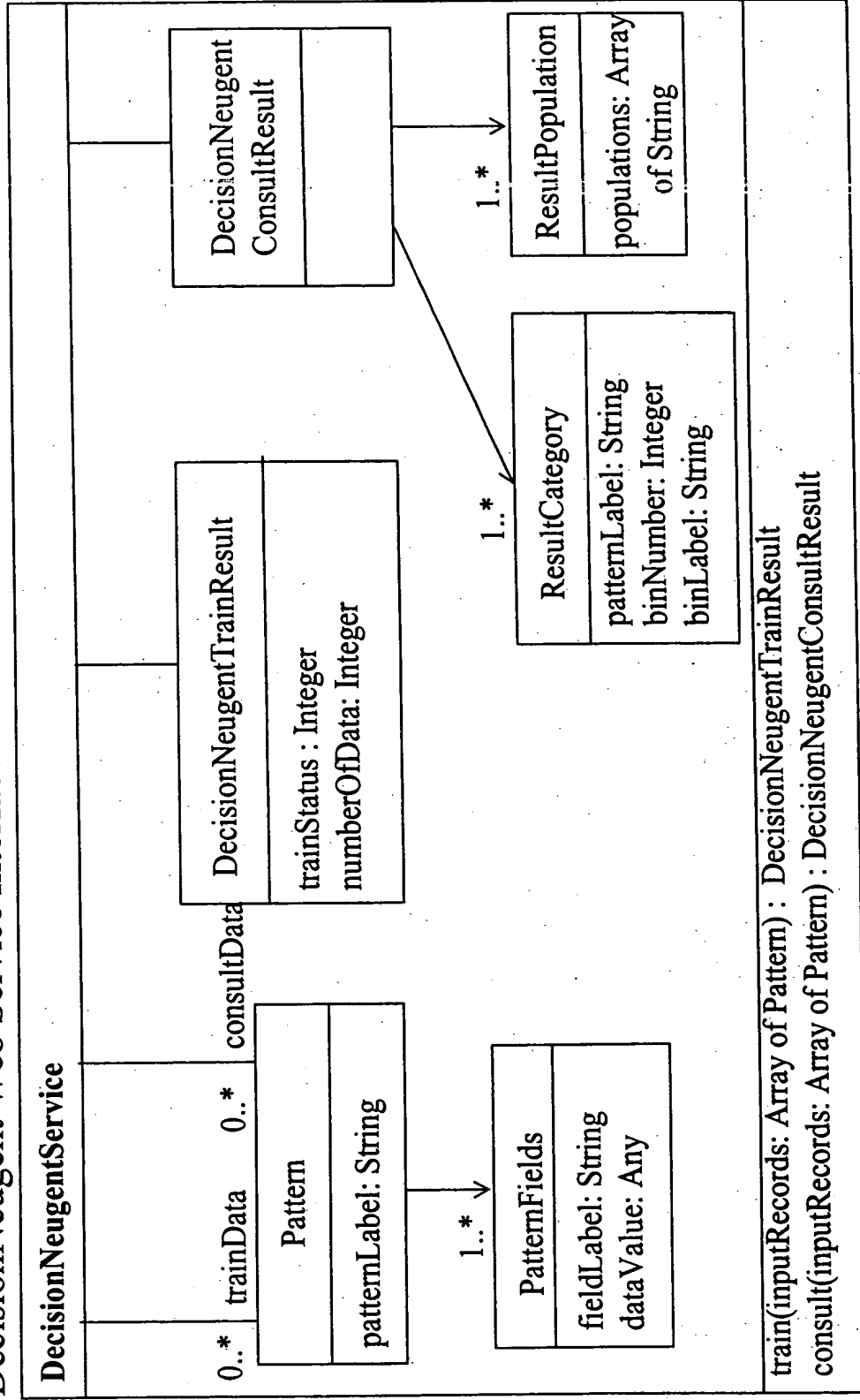
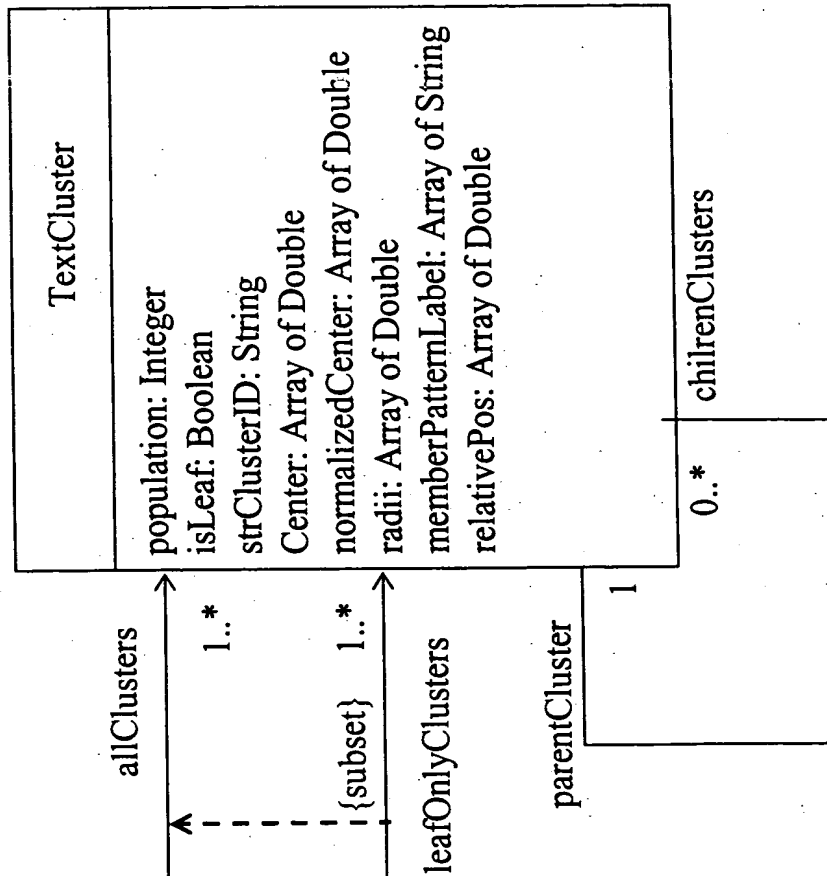
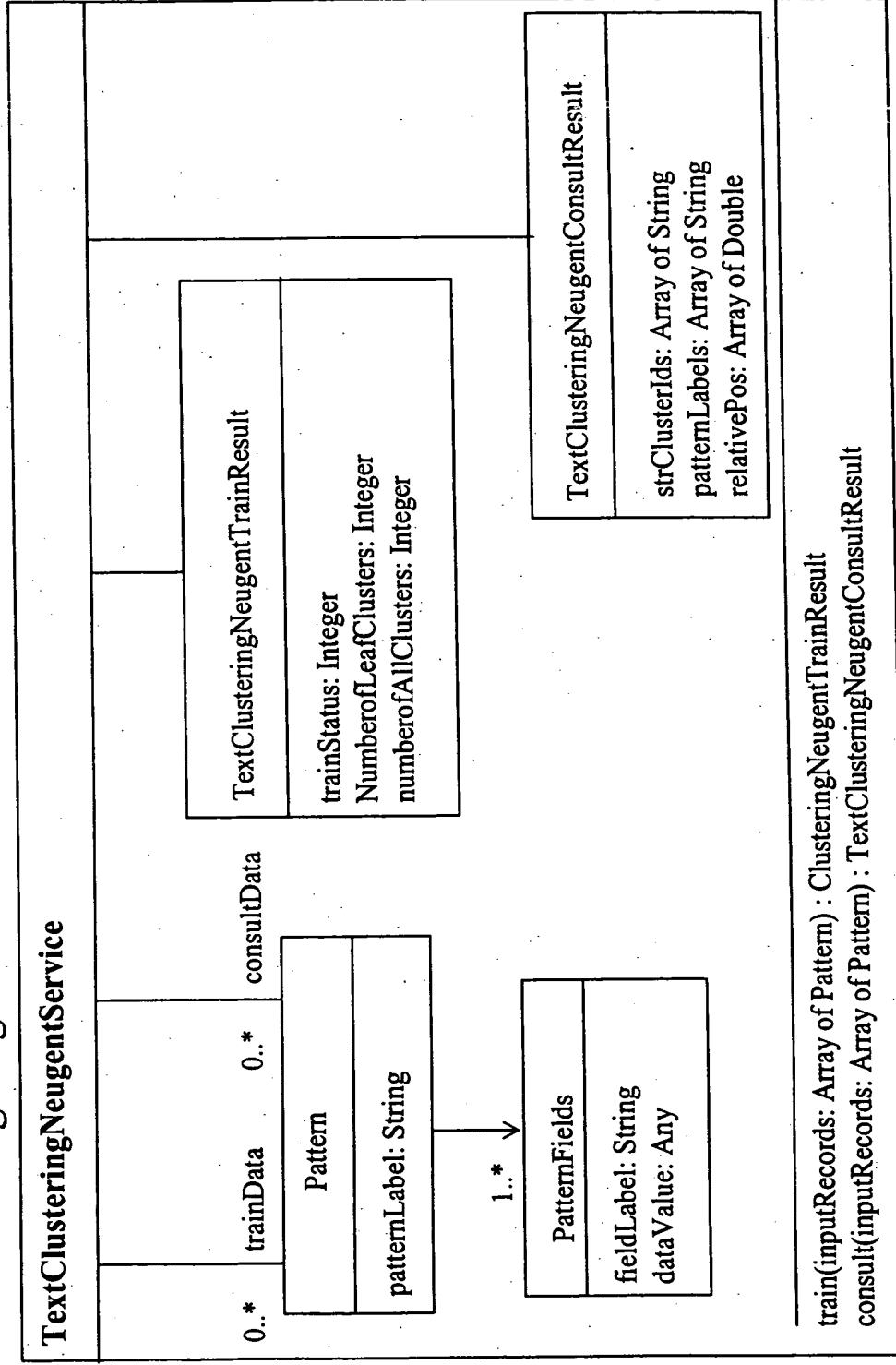


FIG. 5G

TextClusteringNeugent

TextClusteringNeugent
inputFldNameList: Array of String outputFldNameList: Array of String labelField: String name: String fieldType: Array of Integer weight: Array of double thresholdPopulation: Integer clusterMaxLevel: Integer maxClusterPerLevel: Integer noOfLeafOnlyClusters: Integer noOfAllClusters: Integer





# ValuePredictNeugent

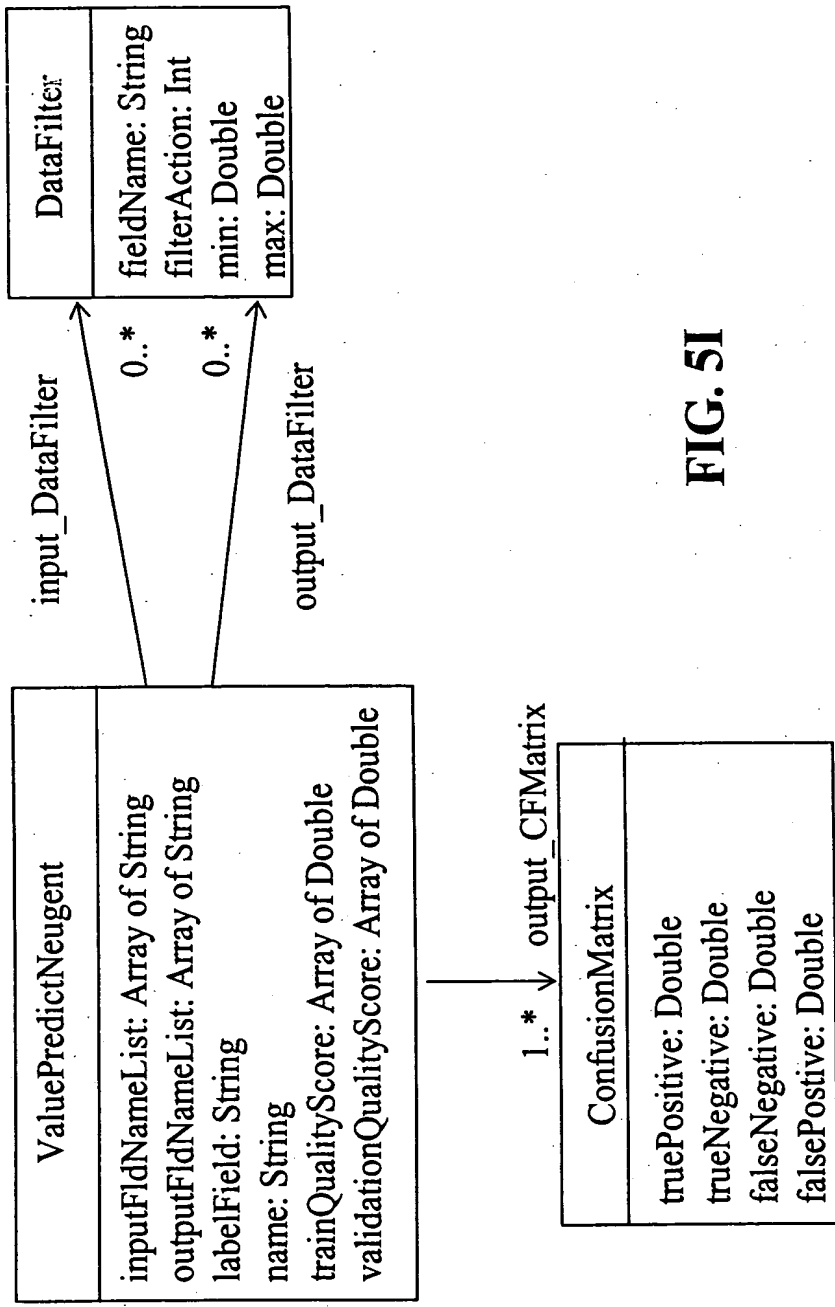


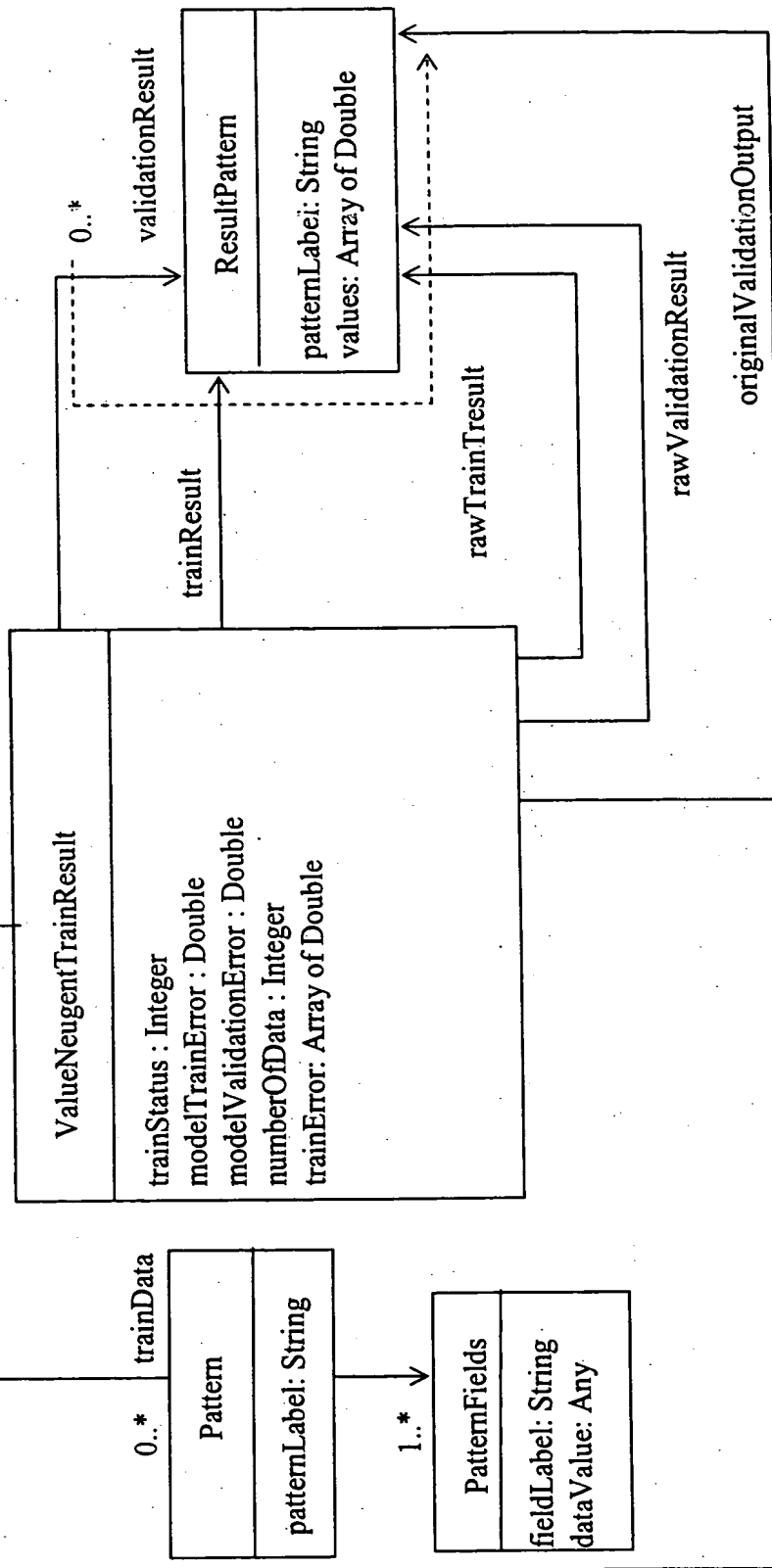
FIG. 5I



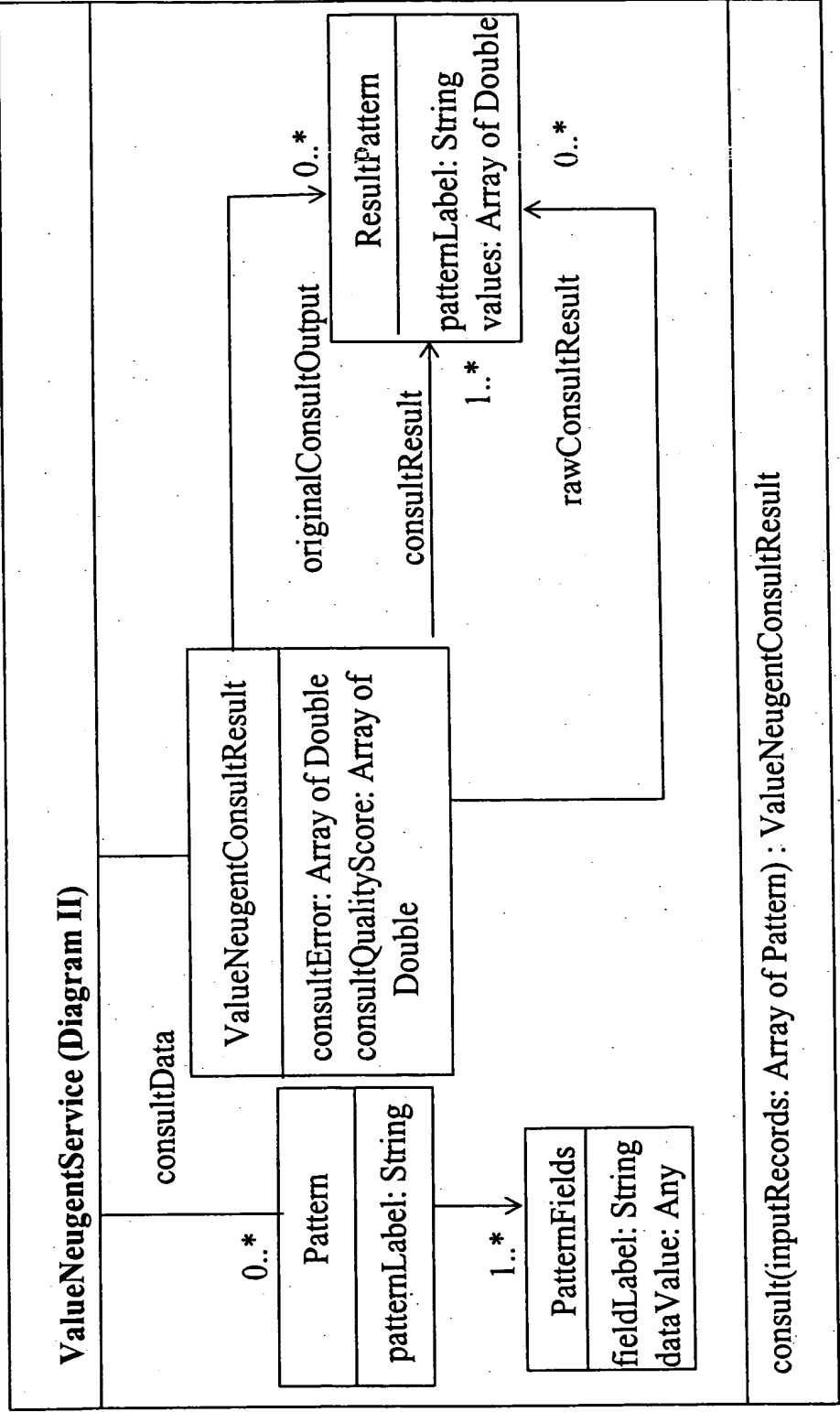
FIG. 5J

# ValuePredictNeugent Web Service Interface

## ValueNeugentService (Diagram I)



train(inputRecords: Array of Pattern, validationPercentage: Double, returnResultFlag: Boolean) : ValueNeugentTrainResult



**FIG. 5K**

## ClusteringNeugent

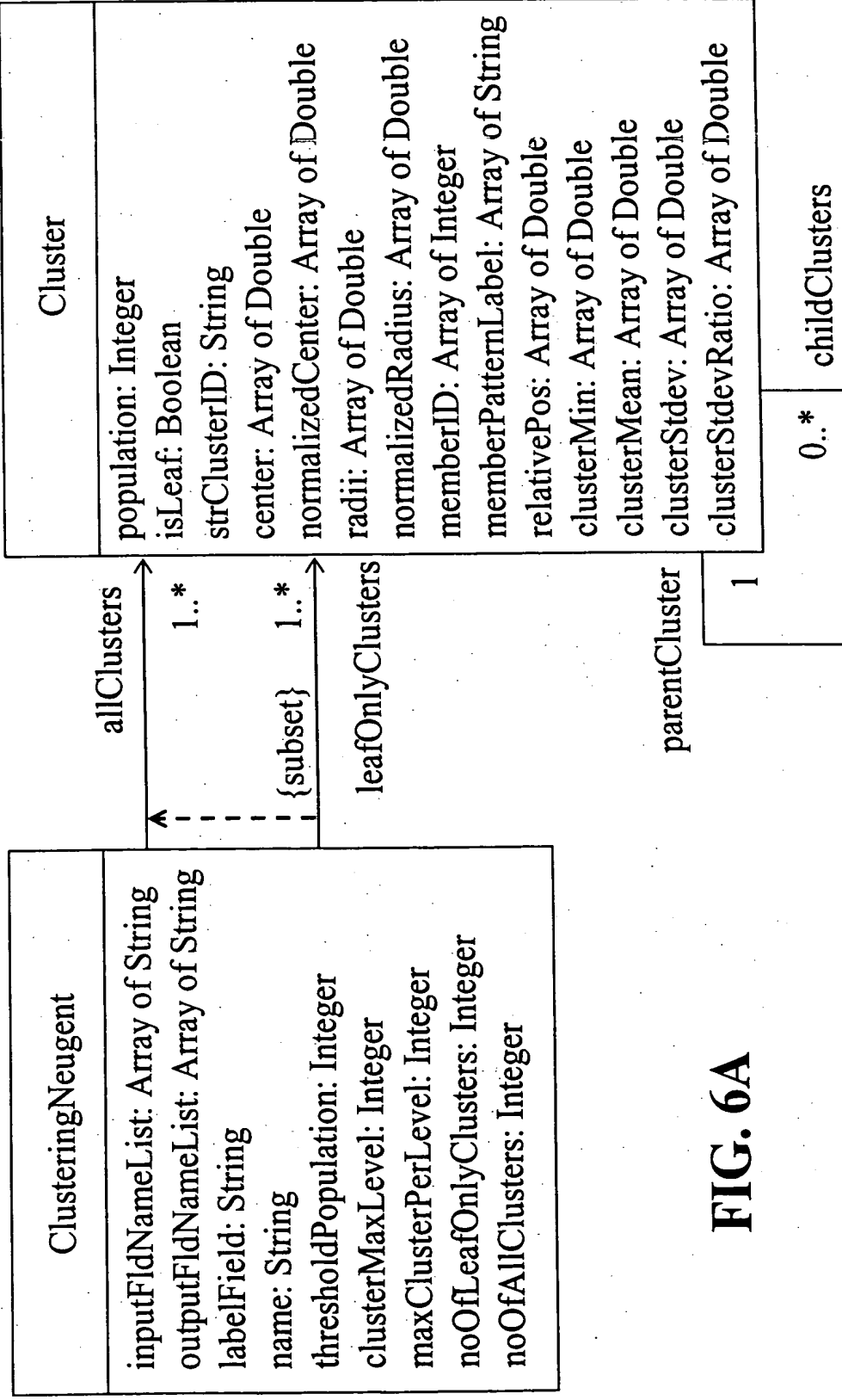
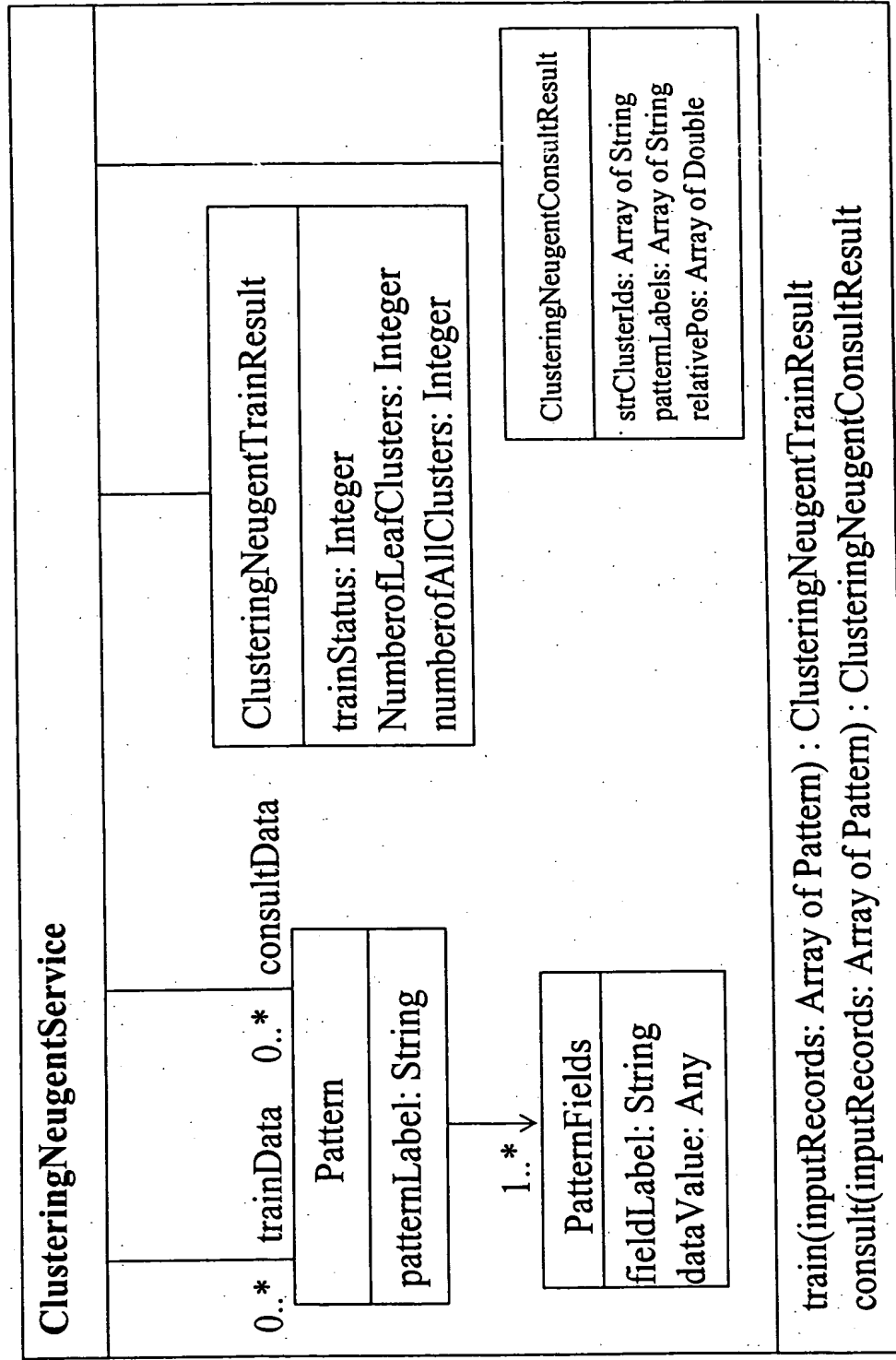


FIG. 6A



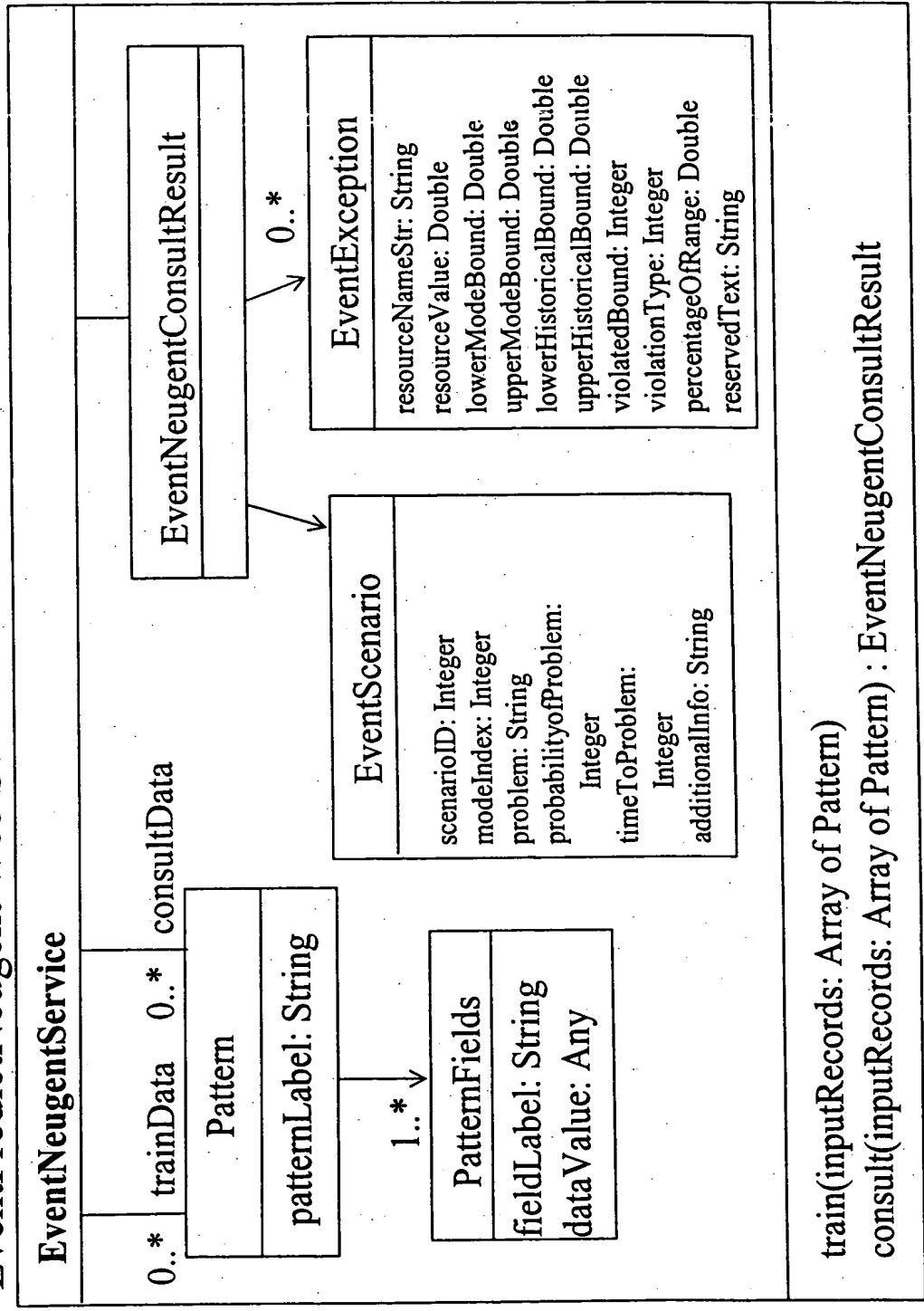
## EventPredictNeugent

EventPredictNeugent
inputFldNameList: Array of String labelField: String name: String rules: Array of String events: Array of String timeBand: Integer noOfDataGoingBack: Integer noOfDataPredict: Integer

FIG. 6C

EventPredictNeugent Web Service Interface

FIG. 6D



# DecisionNeugent

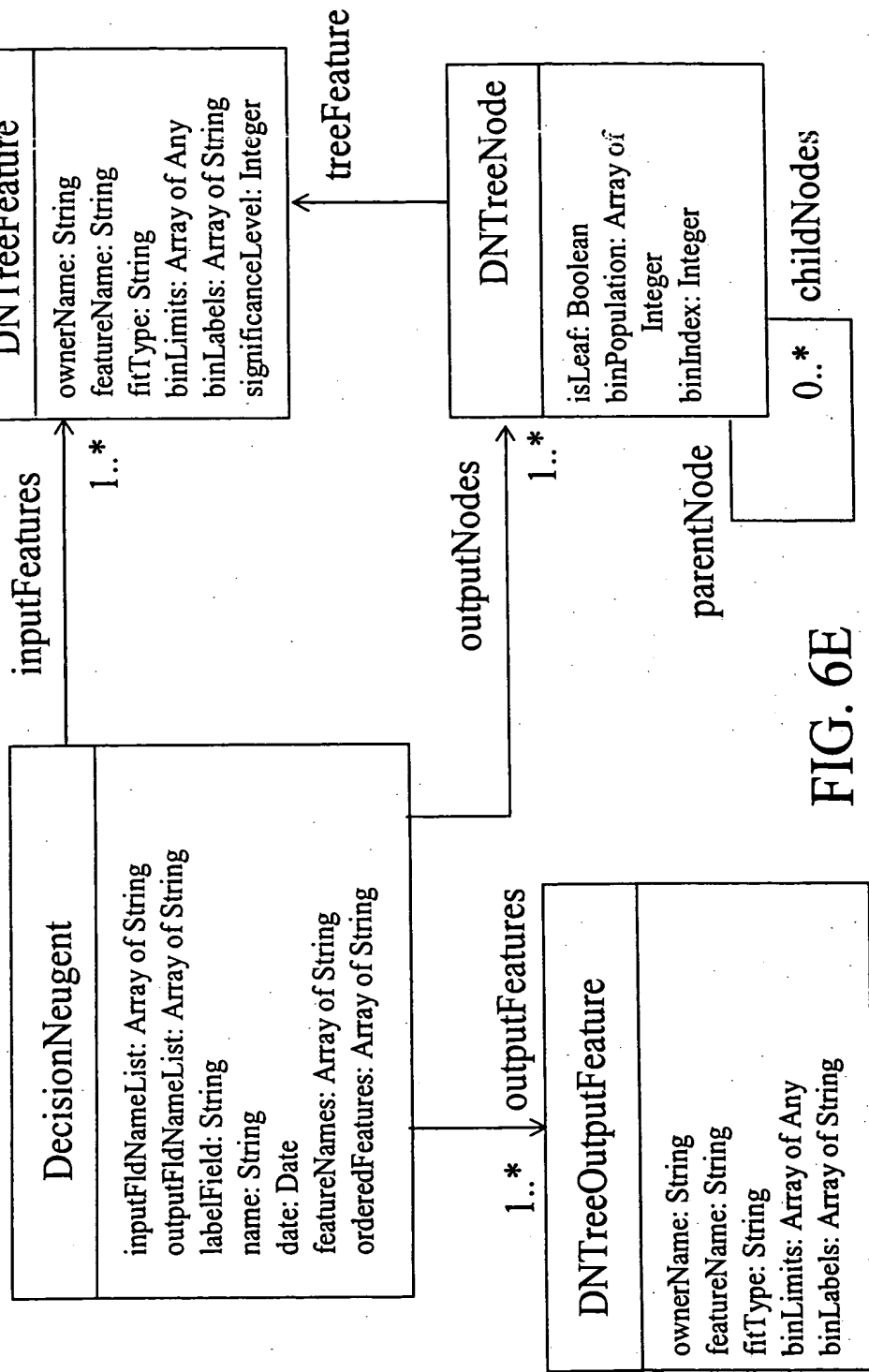
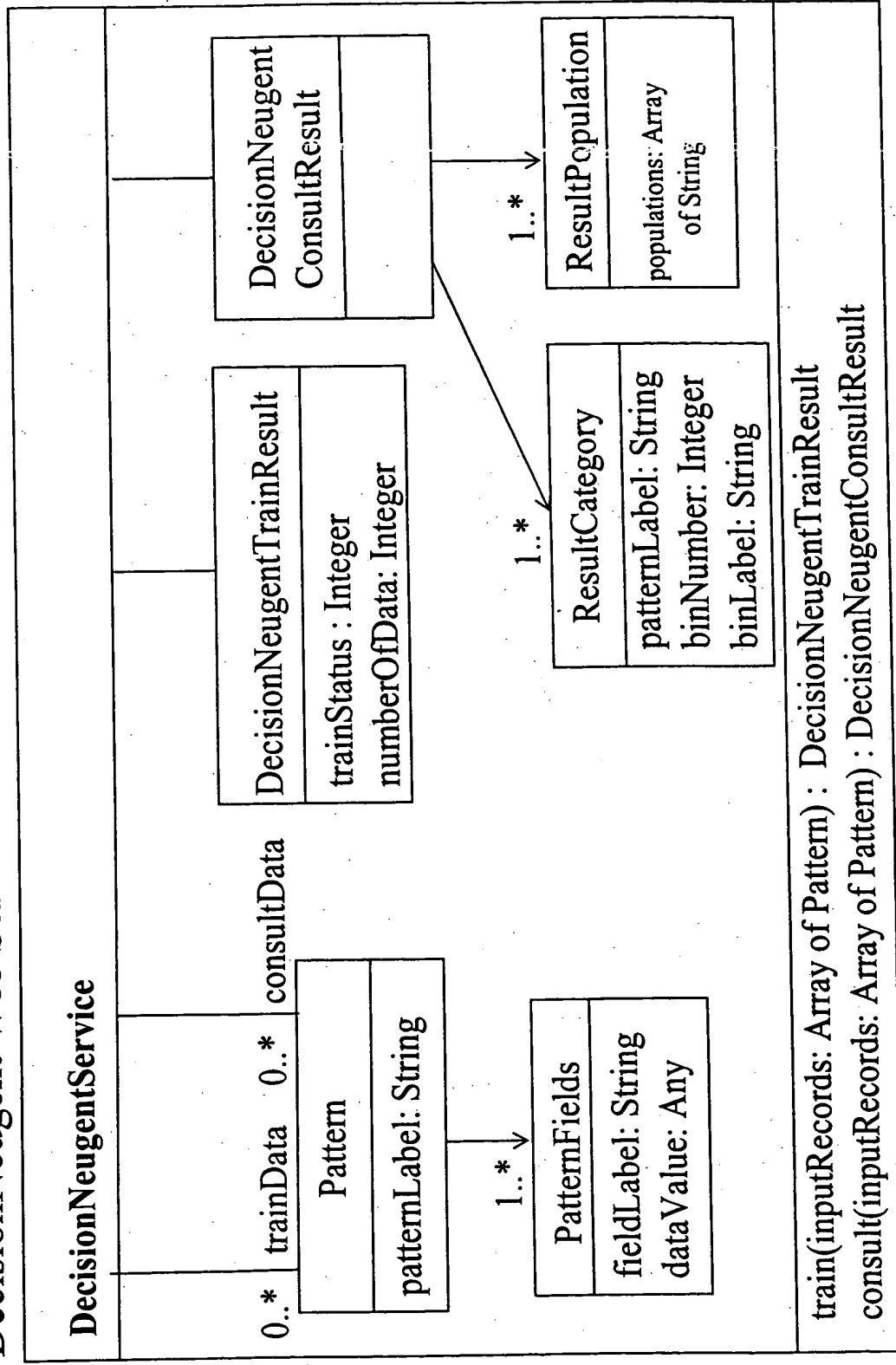


FIG. 6E

DecisionNeugent Web Service Interface

FIG. 6F





# TextClusteringNeugent

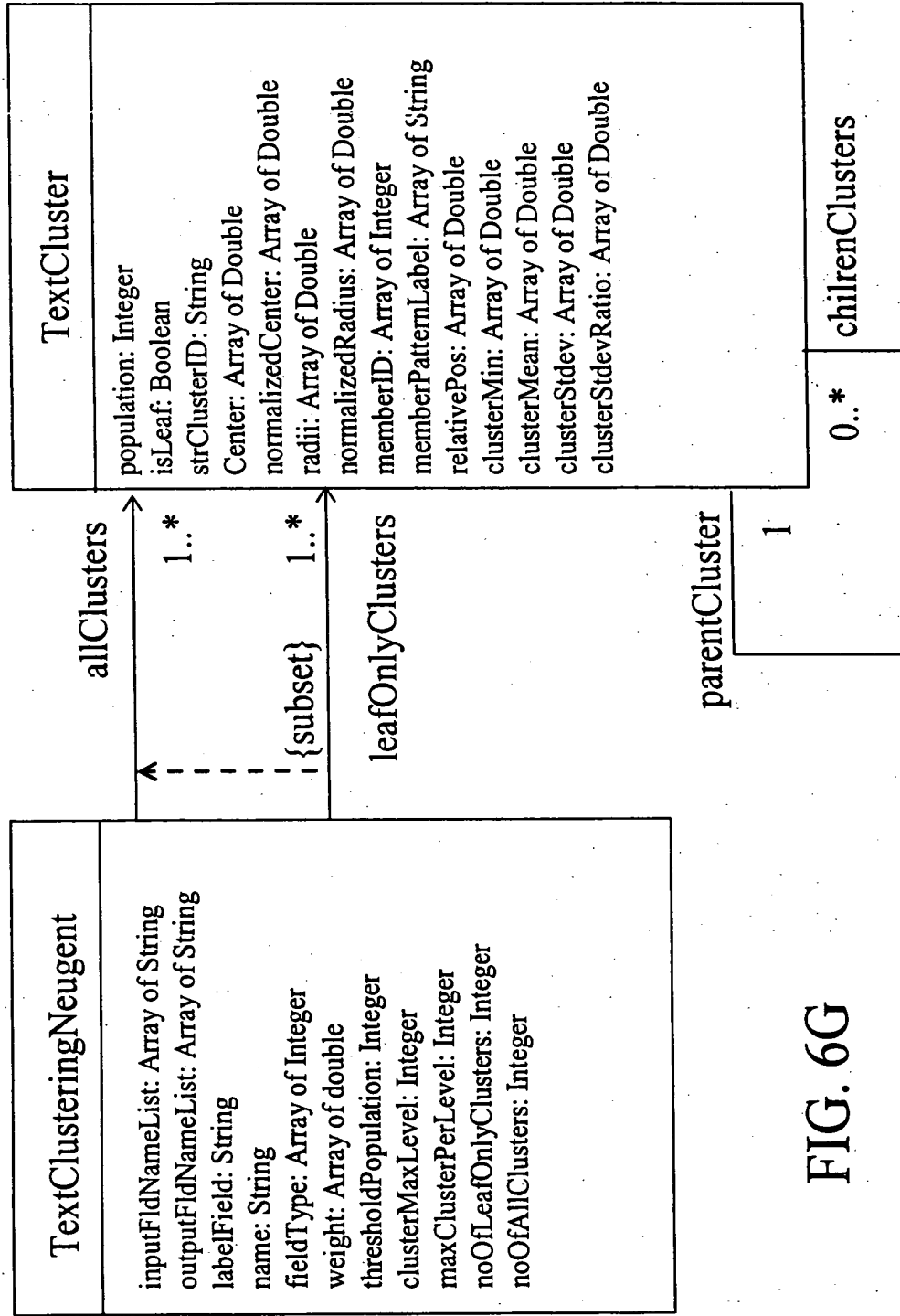
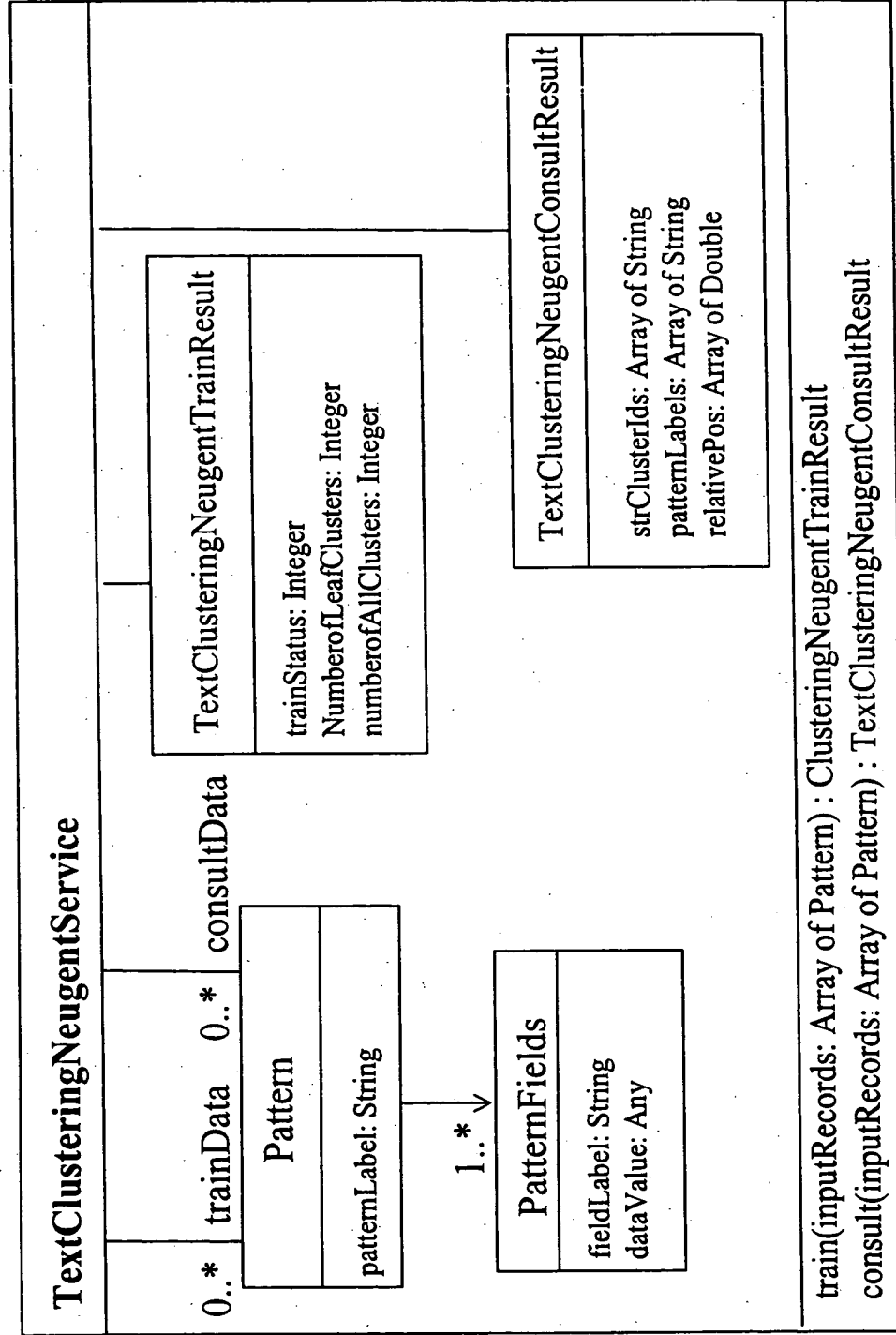


FIG. 6G

TextClusteringNeugent Web Service Interface

FIG. 6H



# ValuePredictNeugent

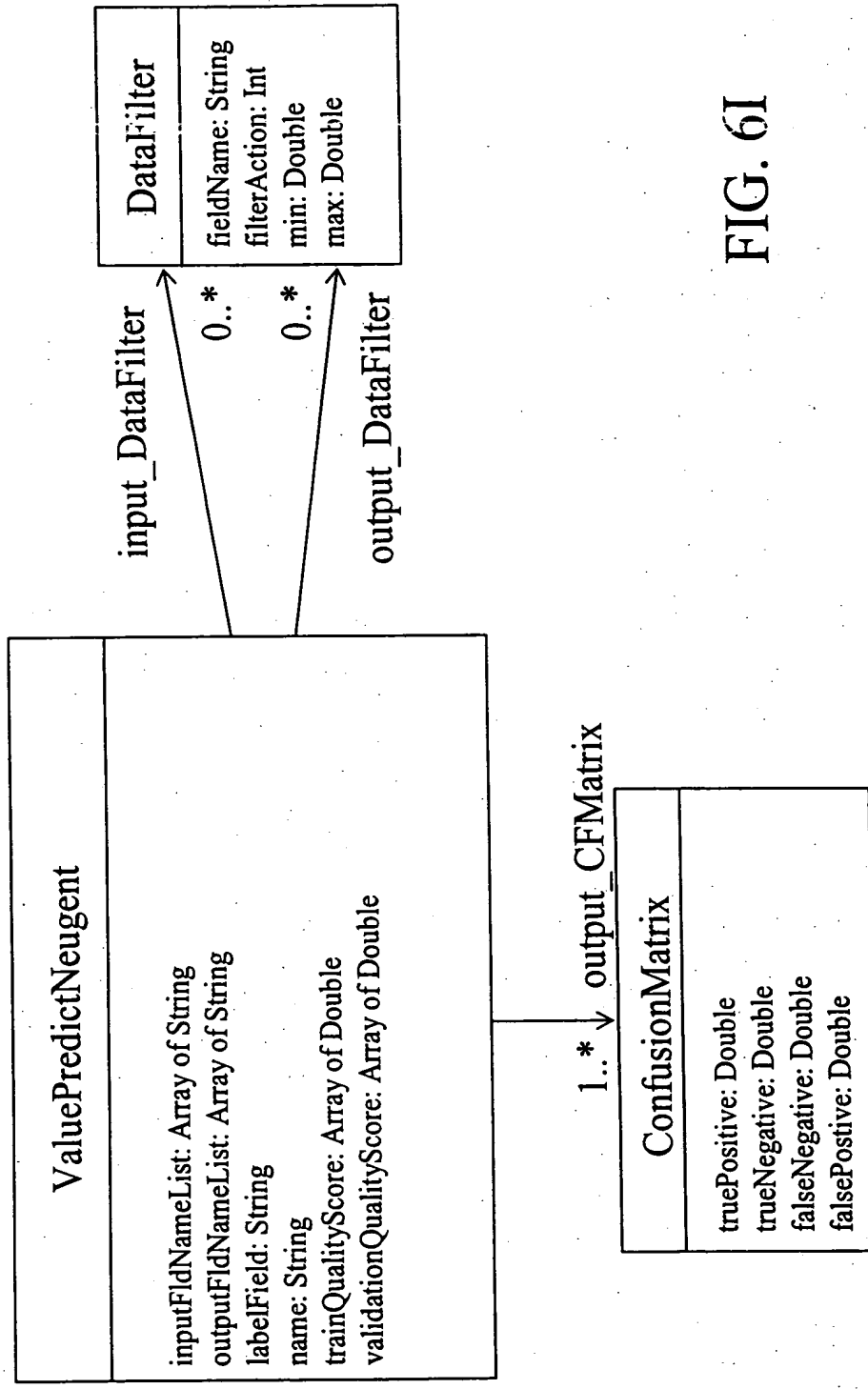
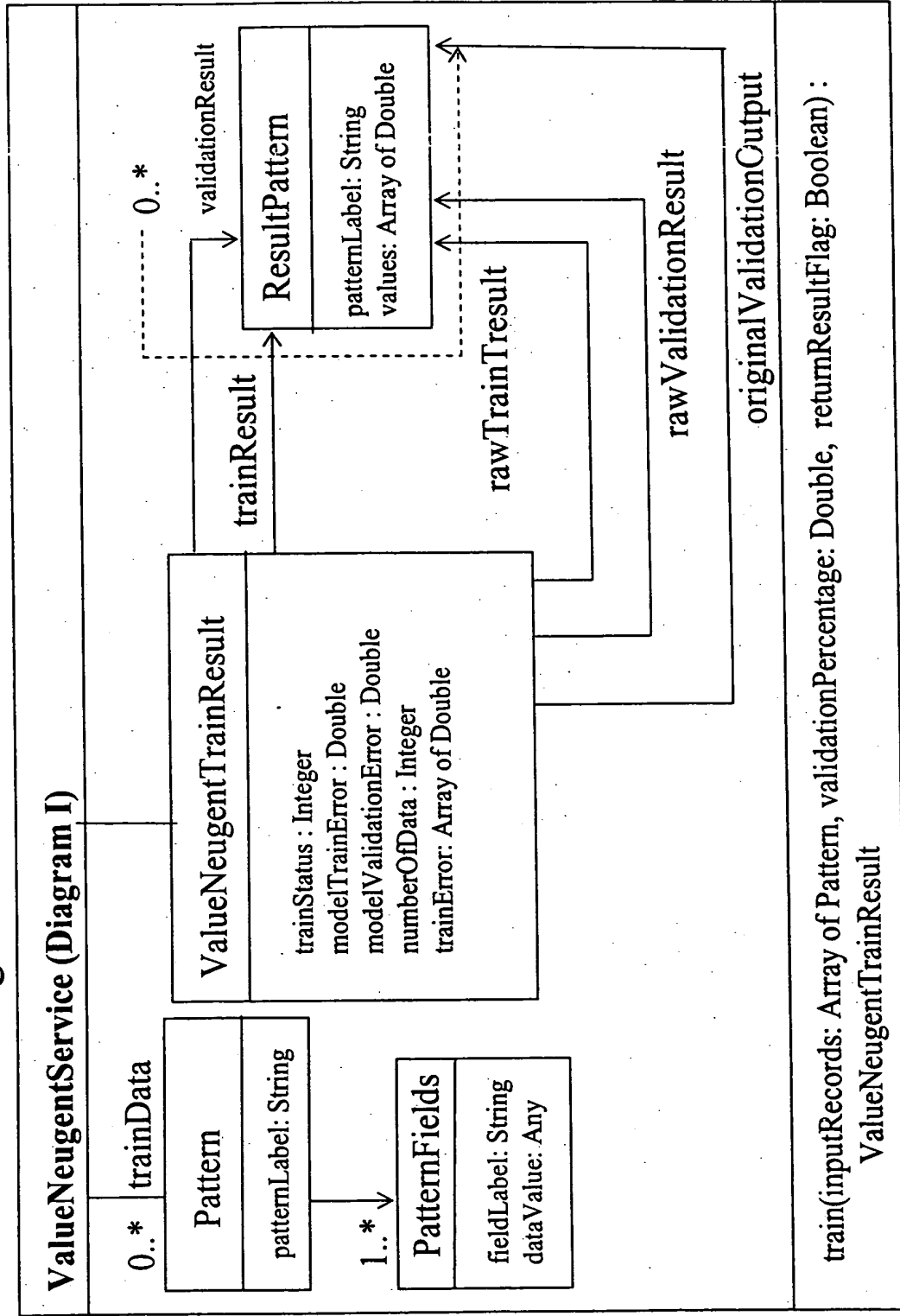


FIG. 6I

ValuePredictNeugent Web Service Interface

FIG. 6J



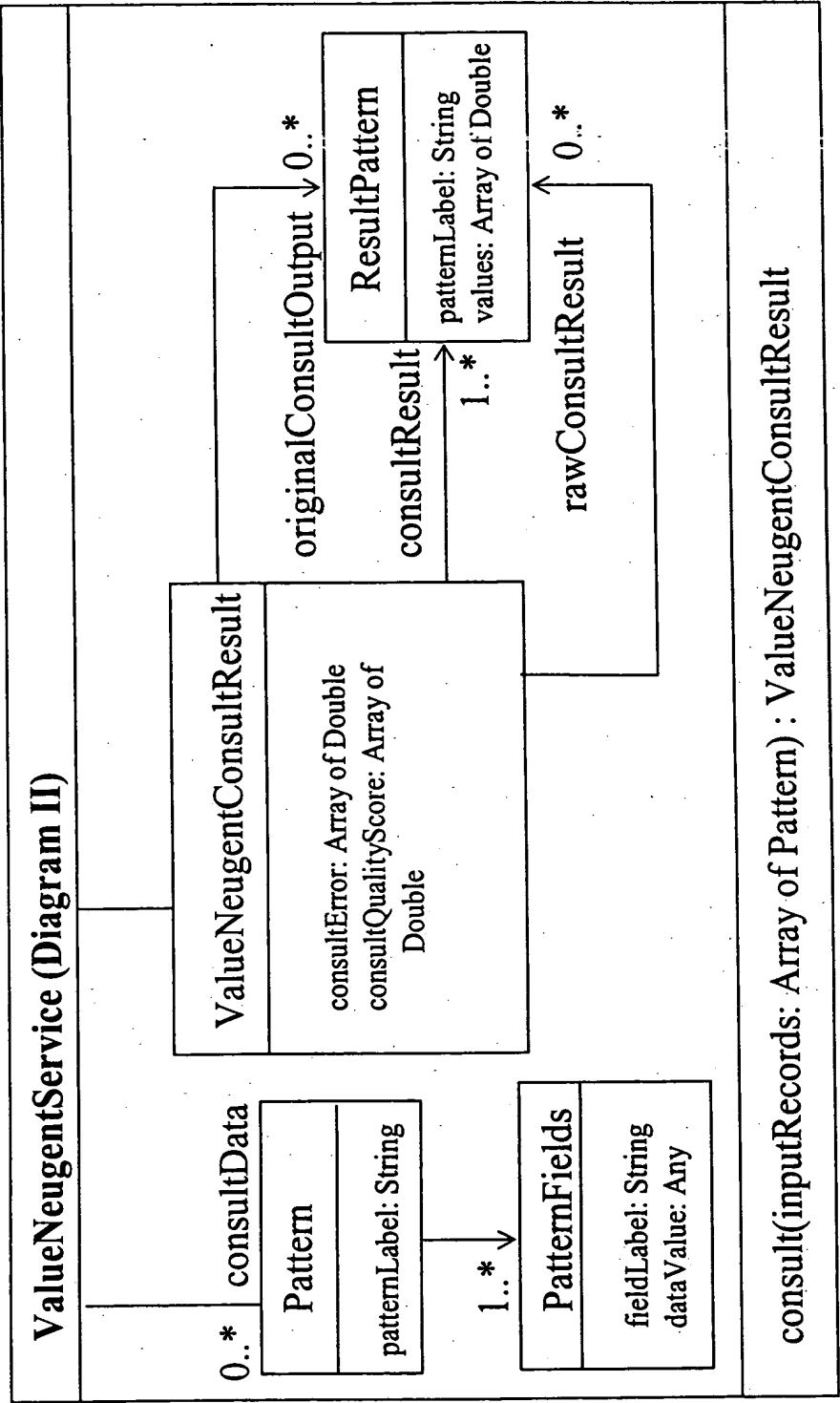
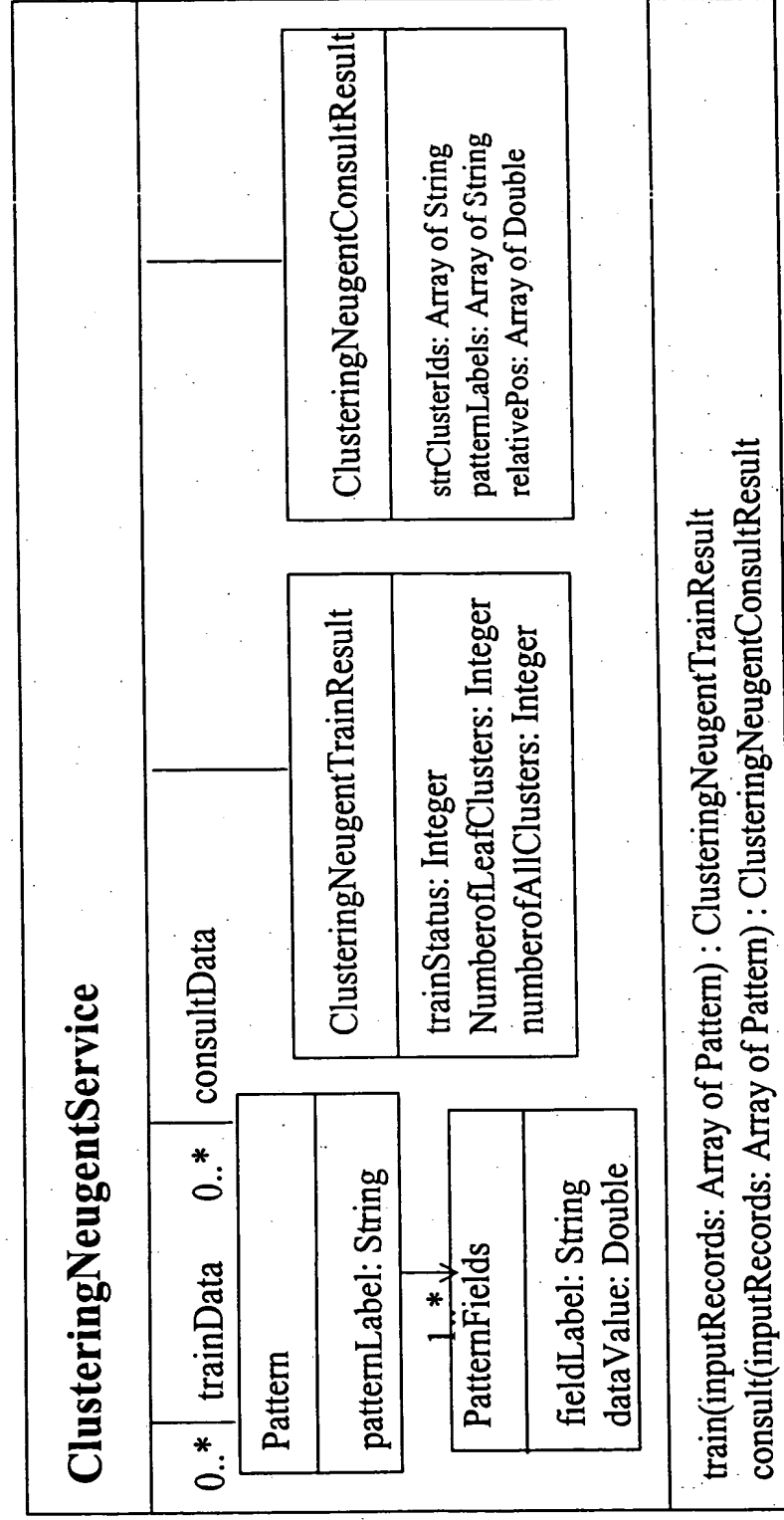


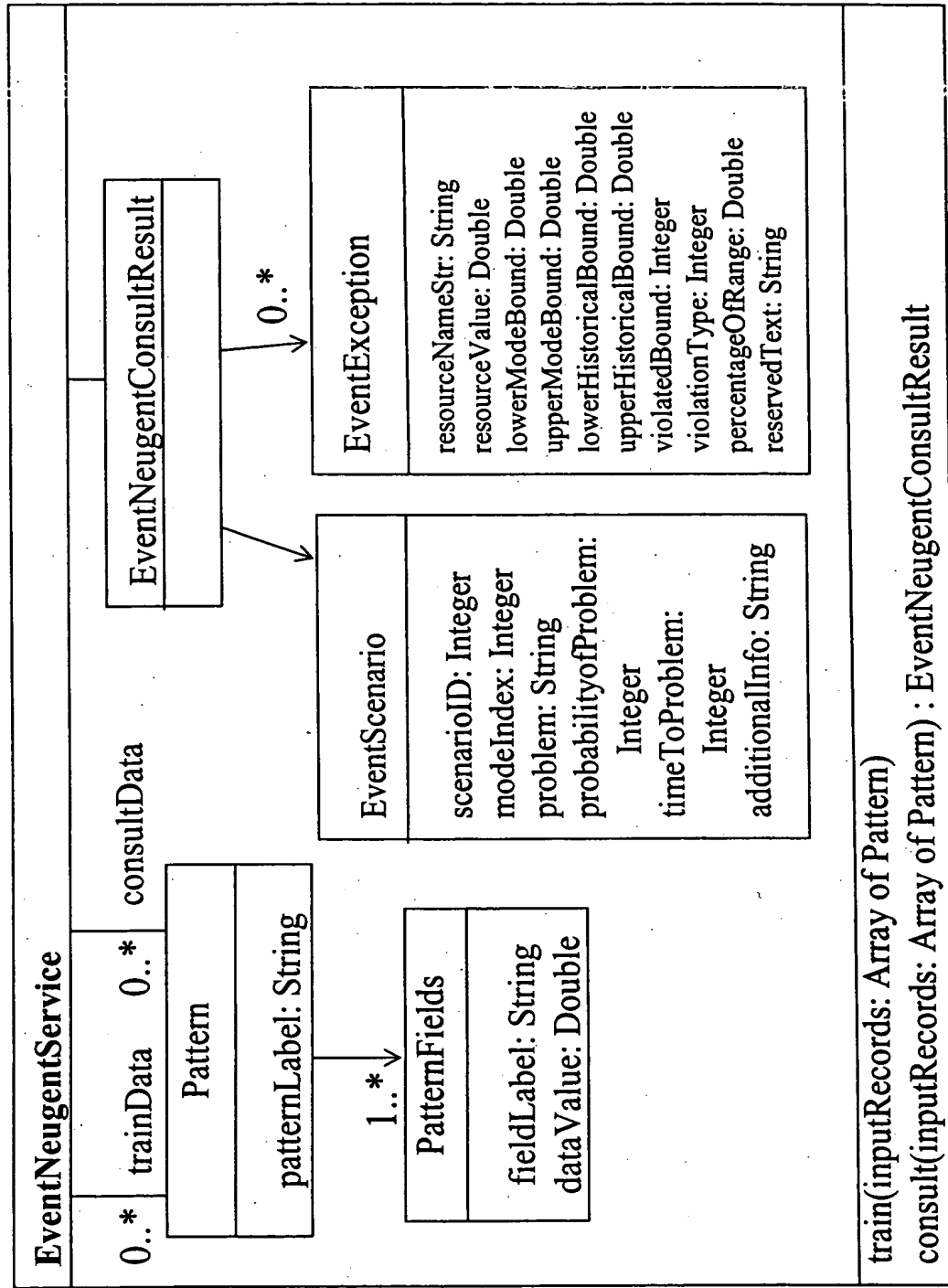
FIG. 6K

# Clustering Neugent Web Service Interface

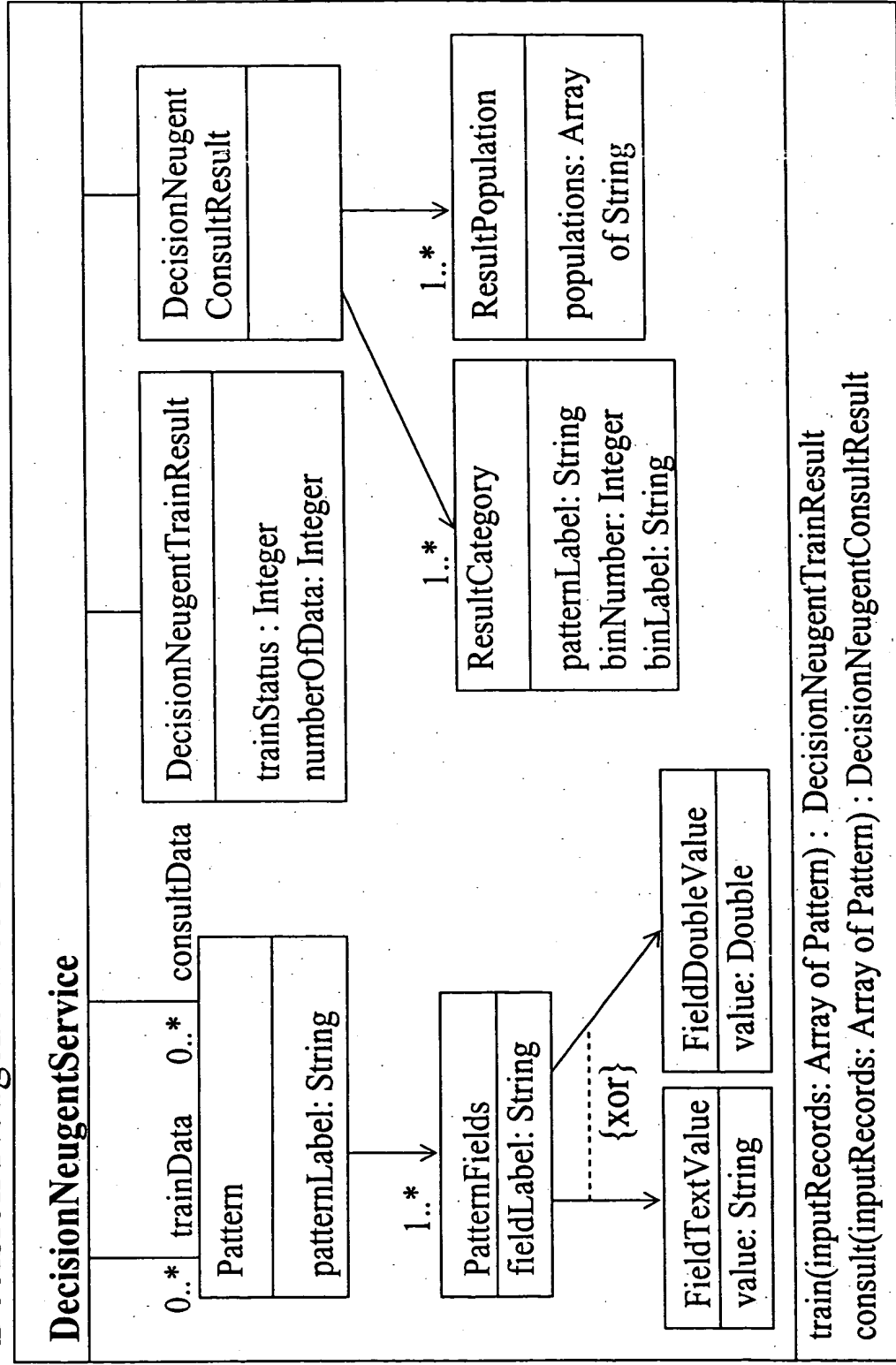
FIG. 7A



Event Predict Neugent Web Service Interface      **FIG. 7B**

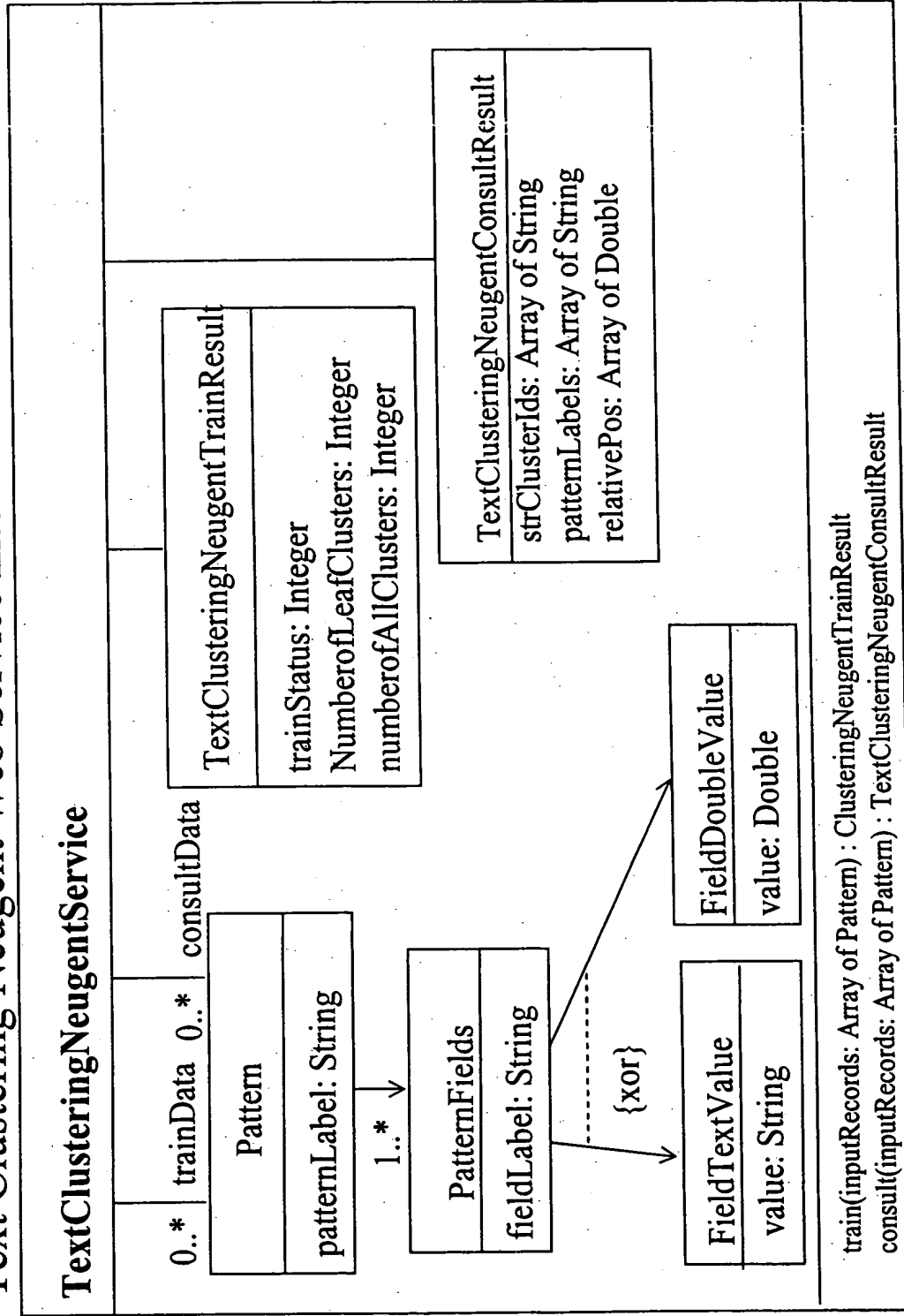


Decision Neugent Web Service Interface **FIG. 7C**





Text Clustering Neugent Web Service Interface **FIG. 7D**



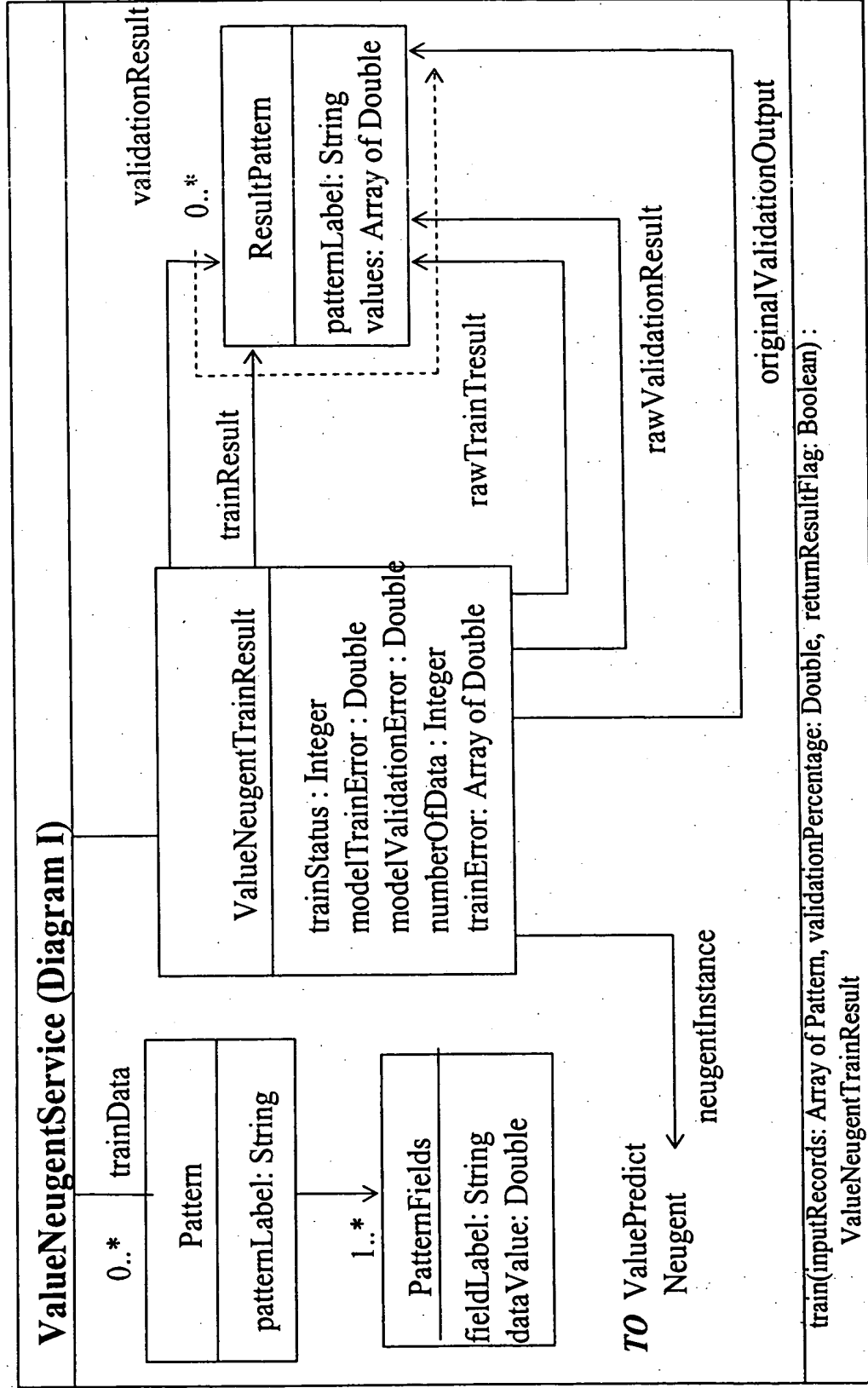
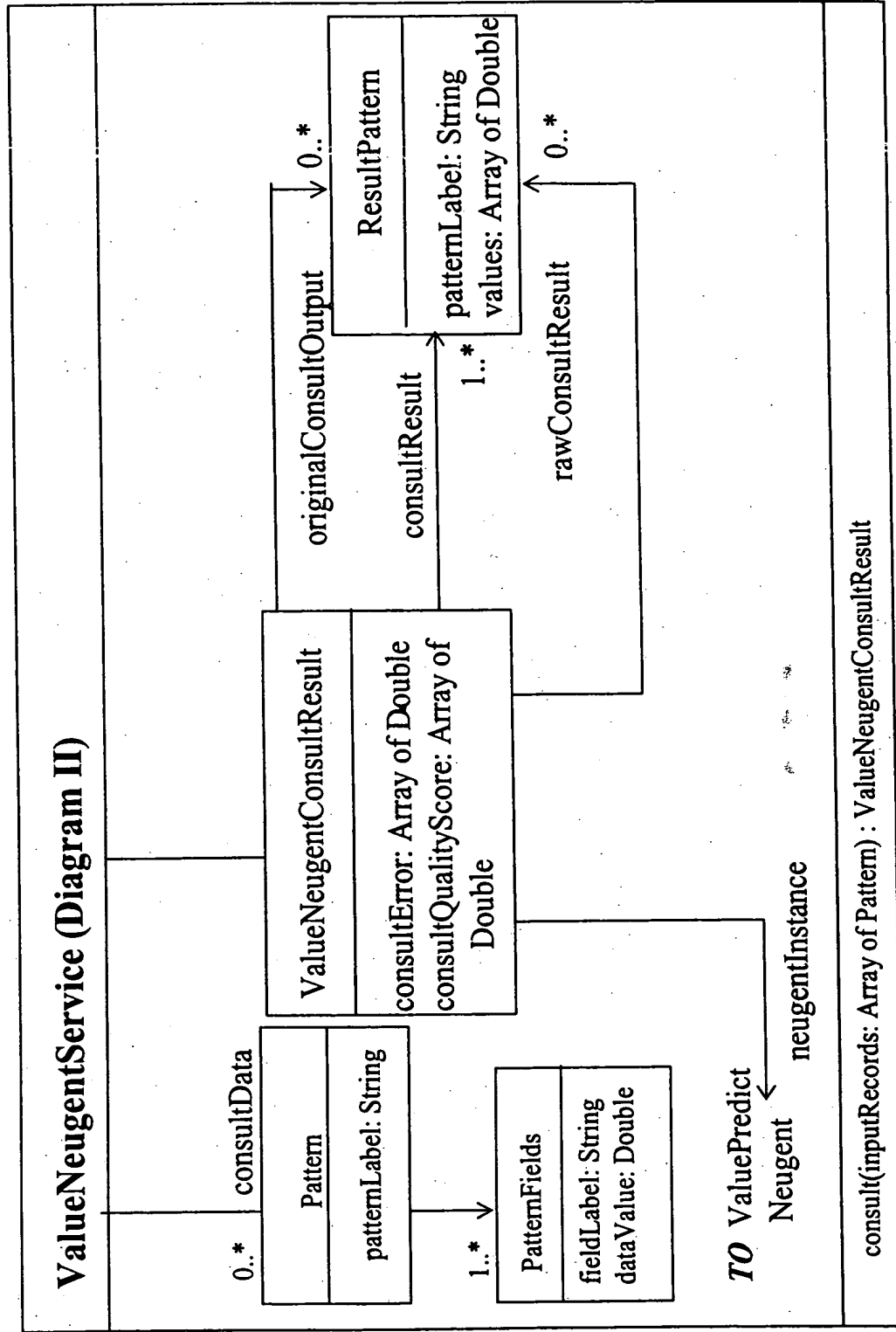


FIG. 7F



# Value Predict Neugent

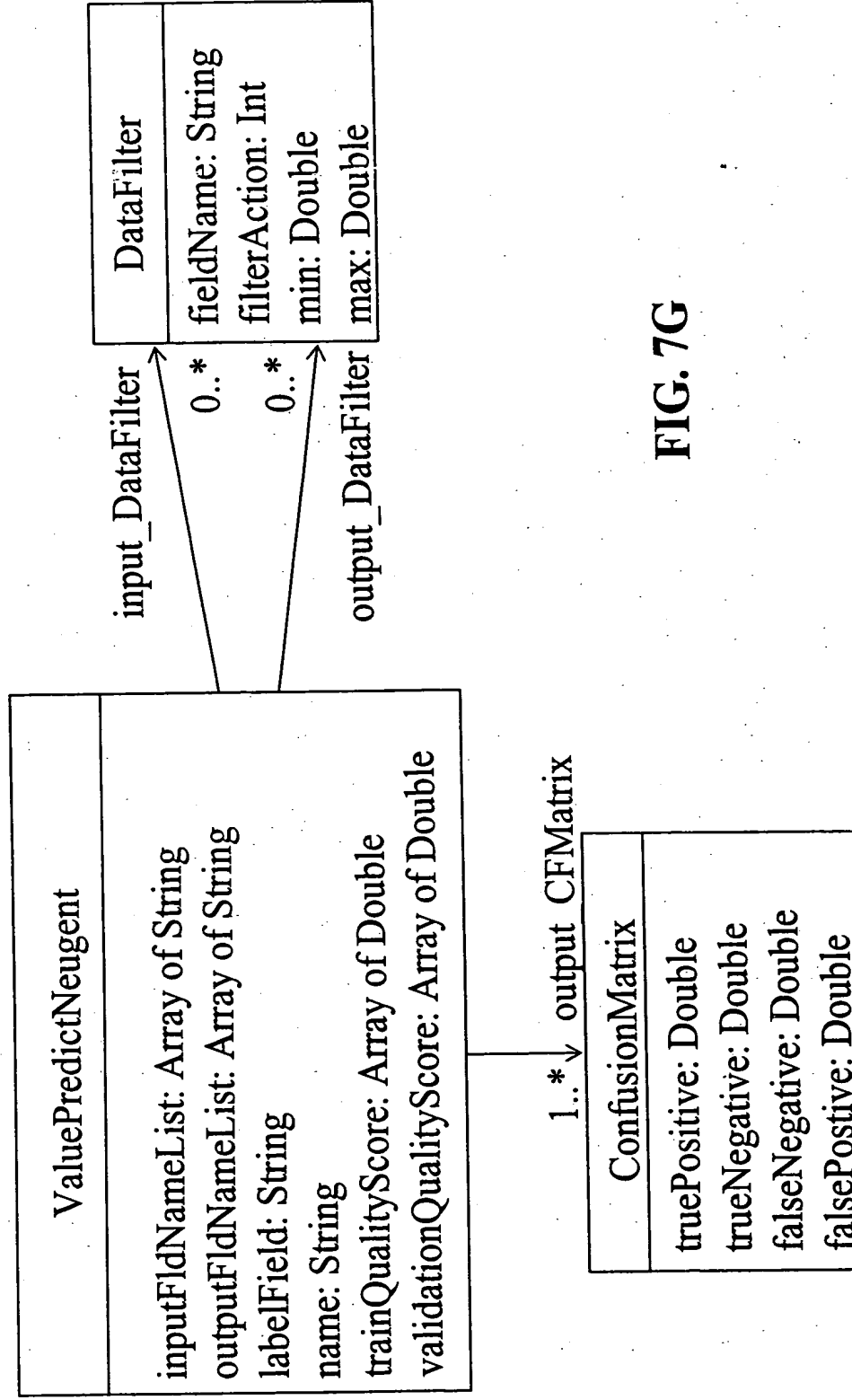


FIG. 7G

# Value Predict Neugent

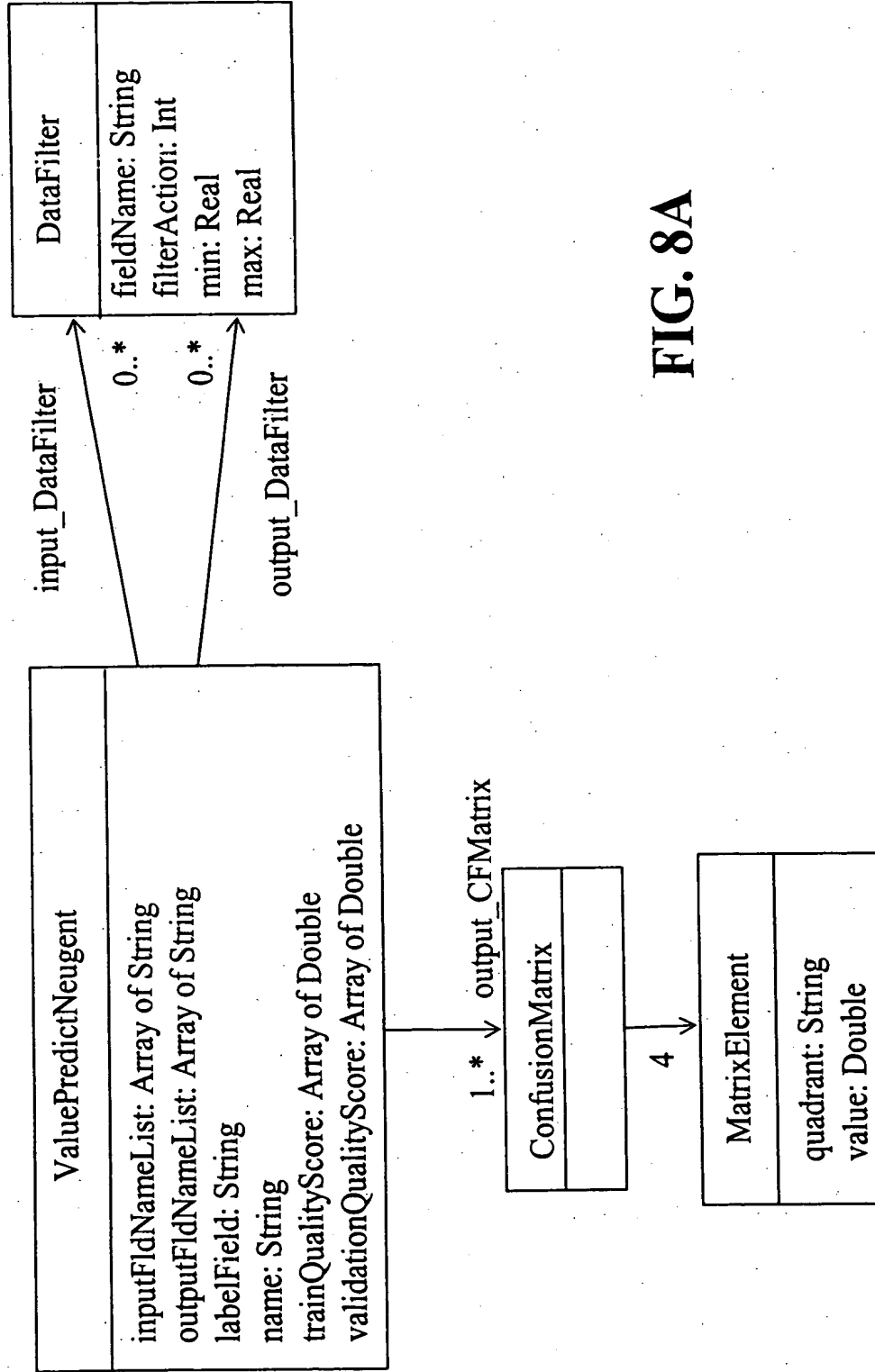


FIG. 8A

FIG. 8B

Value Predict Neugent Web Service Interface

ValueNeugentService (Diagram I)

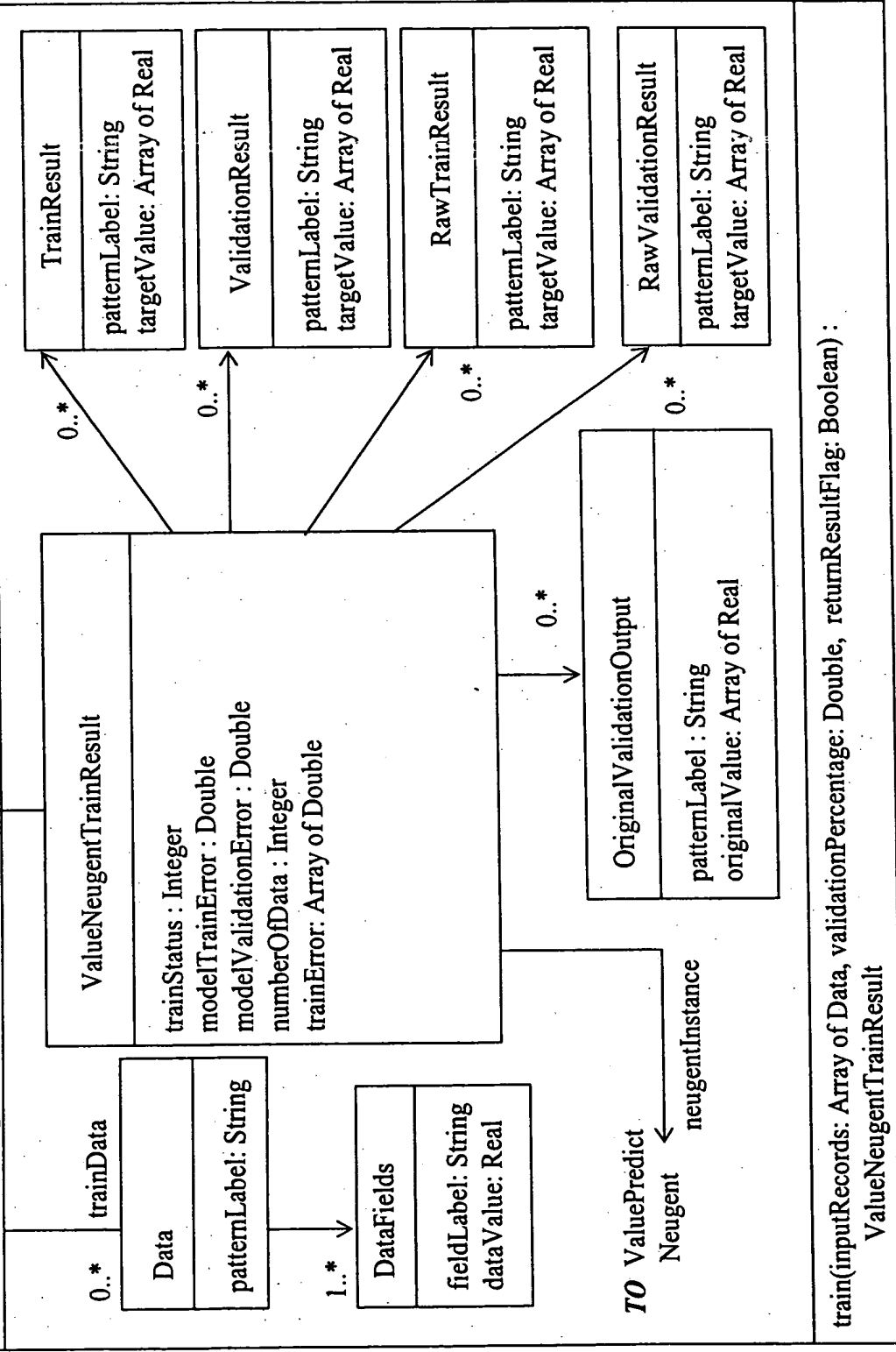
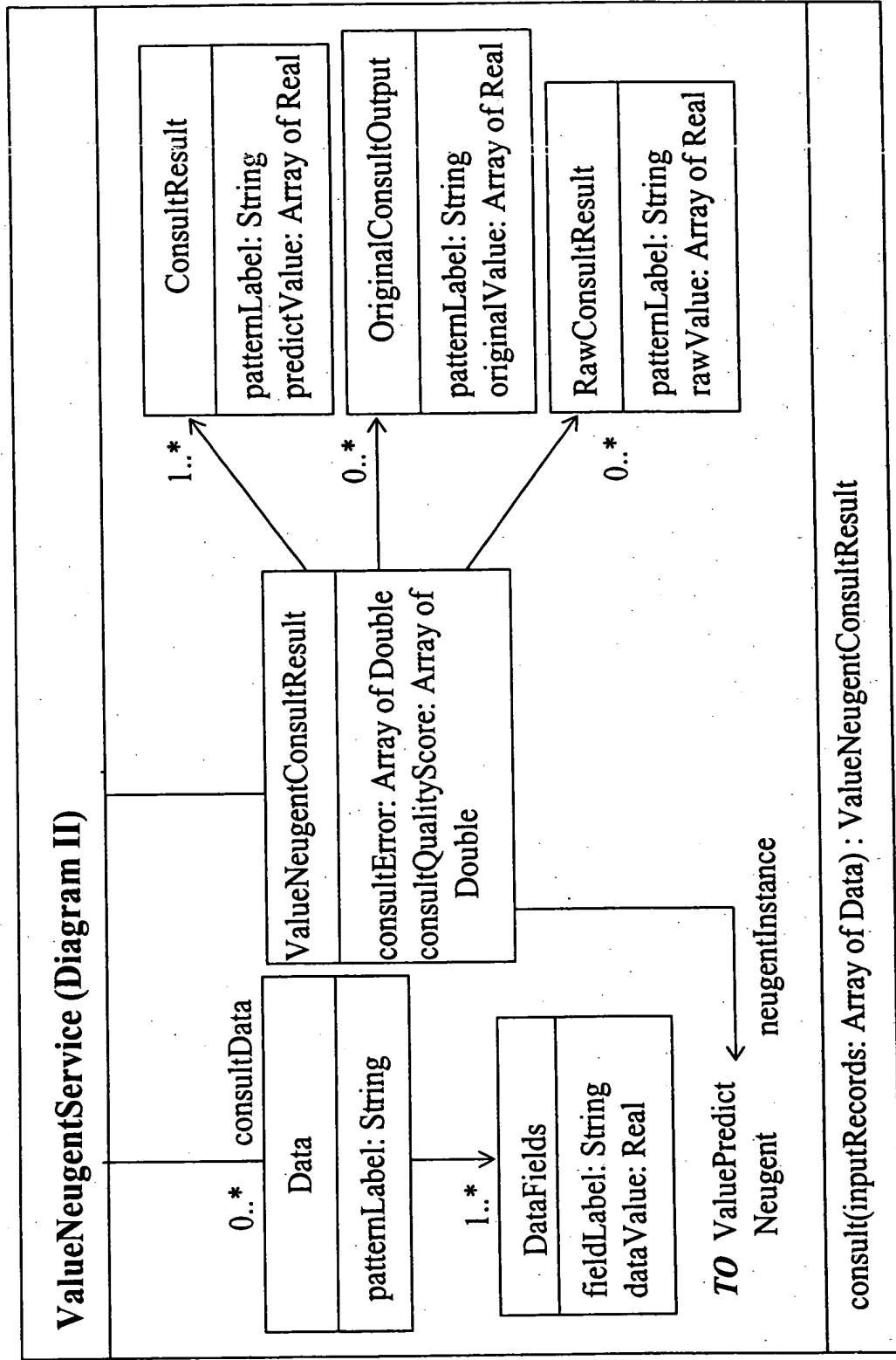


FIG. 8C



## Event Predict Neugent

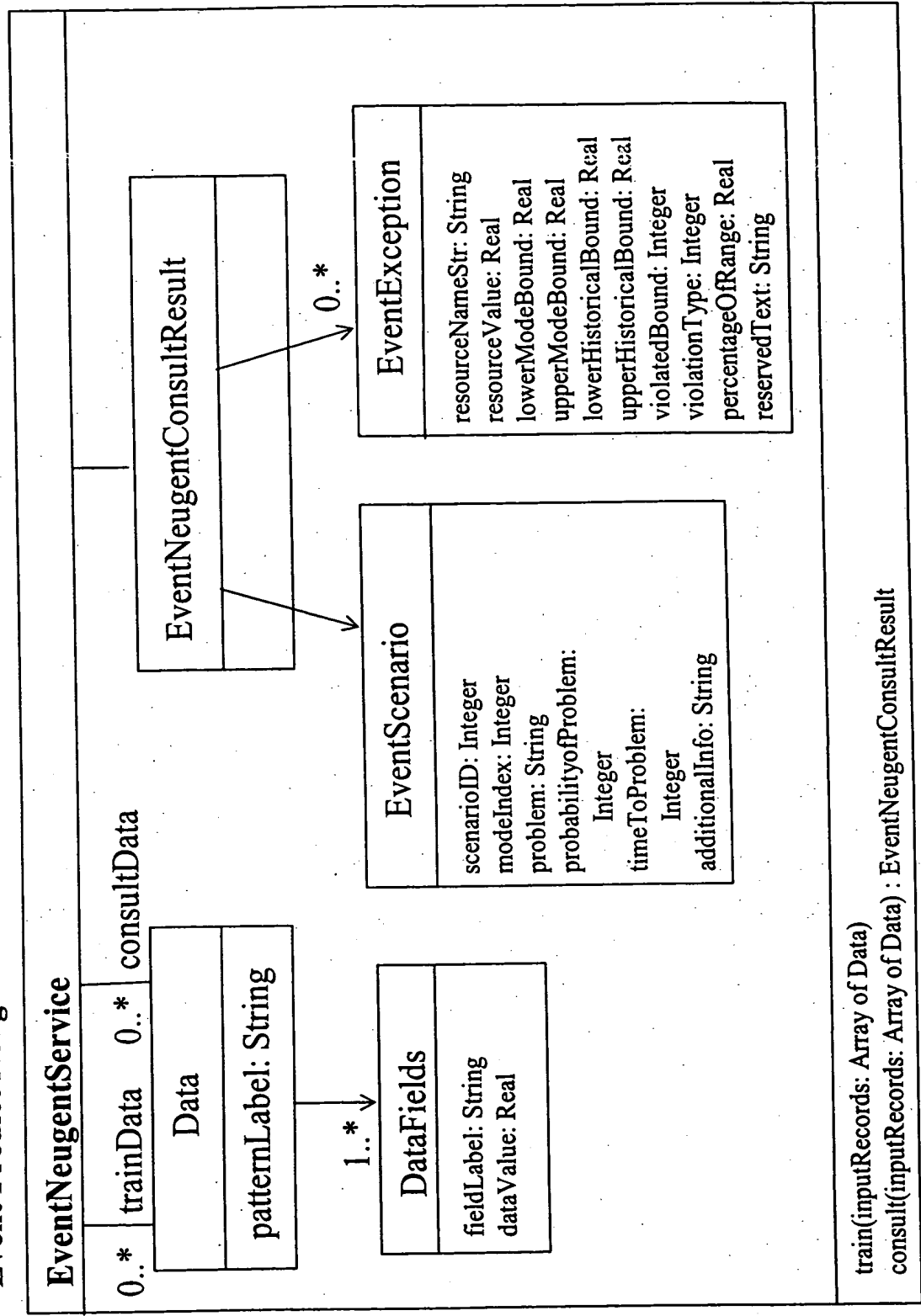
EventPredictNeugent
inputFldNameList: Array of String labelField: String name: String rules: Array of String events: String timeBand: Integer noOfDataGoingBack: Integer noOfDataPredict: Integer

**FIG. 8D**



FIG. 8E

Event Predict Neugent Web Service Interface



## Clustering Neugent

ClusteringNeugent
inputFldNameList: Array of String outputFldNameList: Array of String labelField: String name: String thresholdPopulation: Integer clusterMaxLevel: Integer maxClusterPerLevel: Integer noOfLeafOnlyClusters: Integer noOfAllClusters: Integer

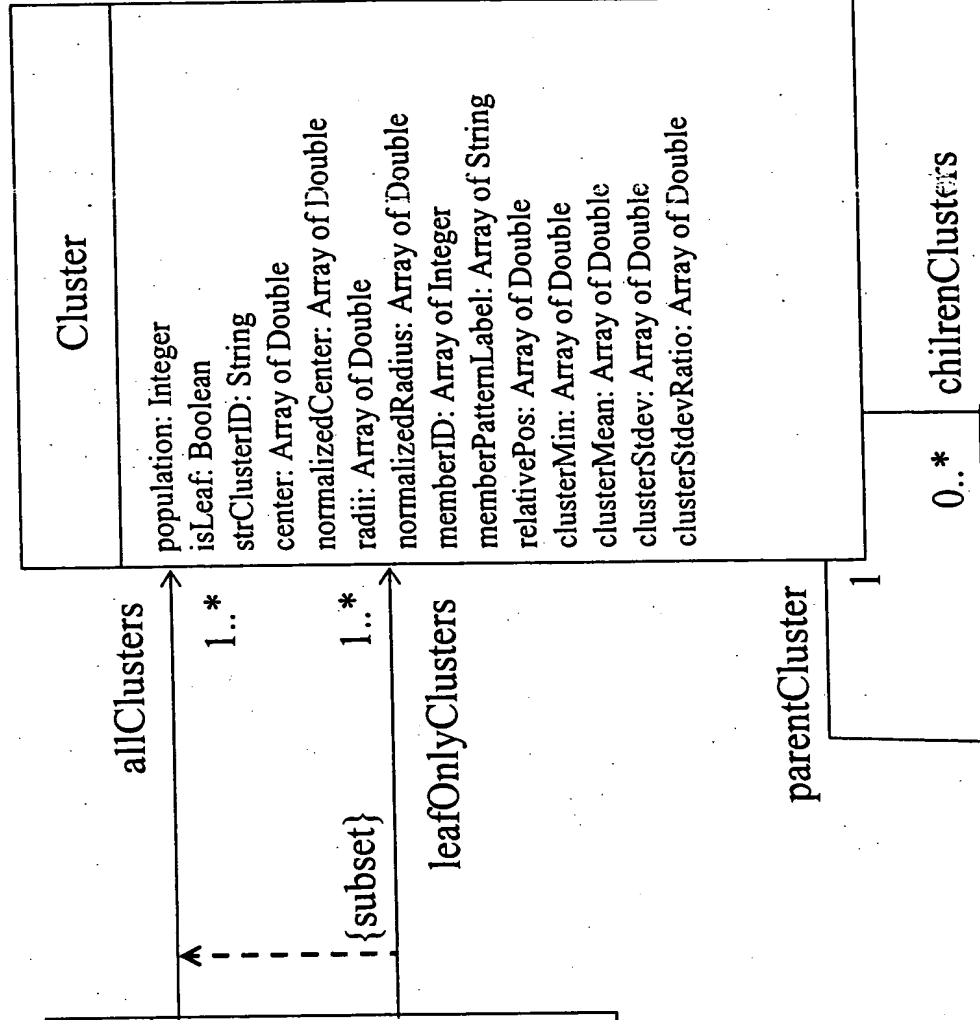
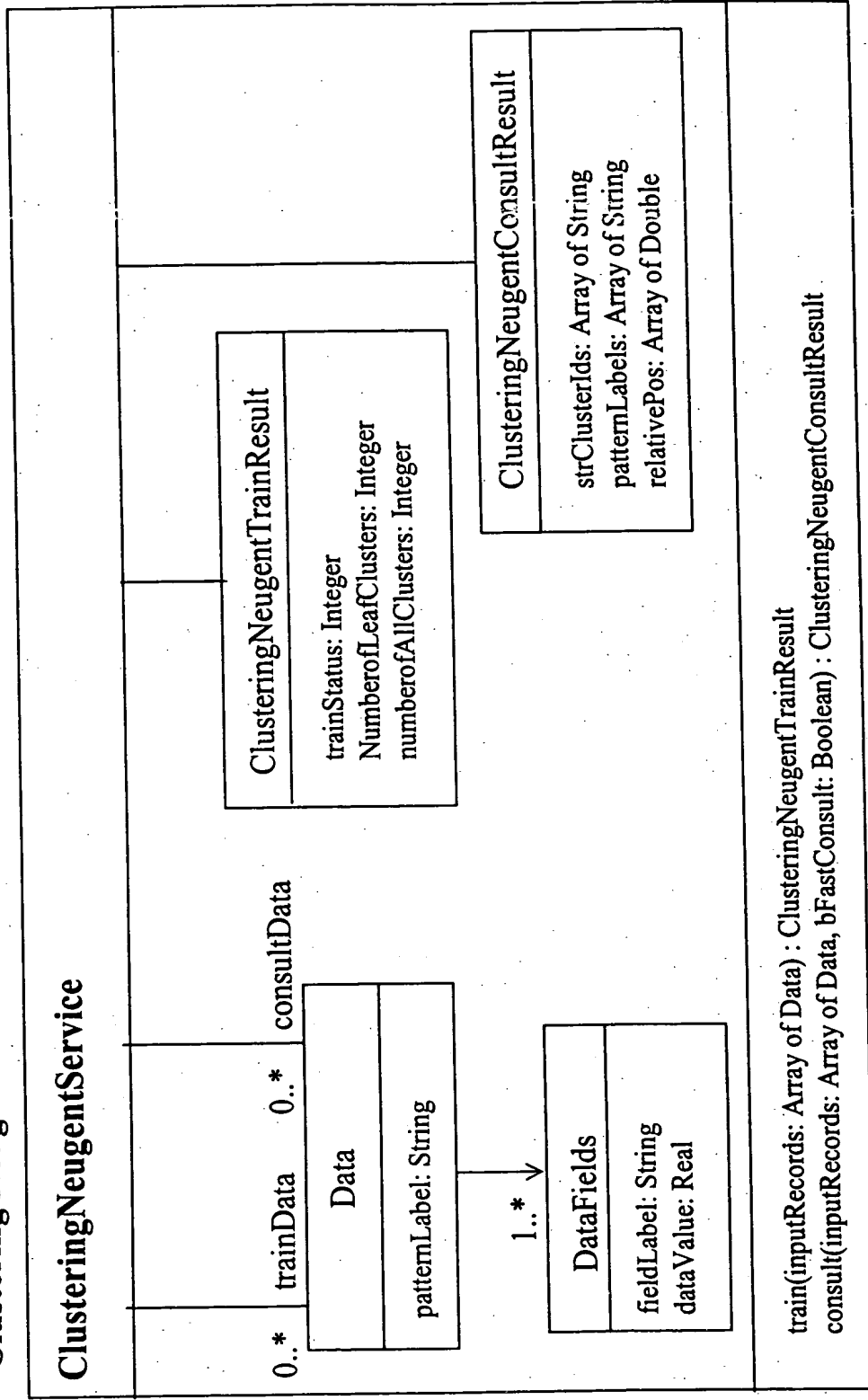


FIG. 8F

FIG. 8G

# Clustering Neugent Web Service Interface



## Text Clustering Neugent

TextClusteringNeugent
inputFldNameList: Array of String
outputFldNameList: Array of String
labelField: String
name: String
fieldType: Array of Integer
weight: Array of double
thresholdPopulation: Integer
clusterMaxLevel: Integer
maxClusterPerLevel: Integer
noOfLeafOnlyClusters: Integer
noOfAllClusters: Integer

allClusters

1..\*

{subset} 1..\*

leafOnlyClusters

parentCluster

1

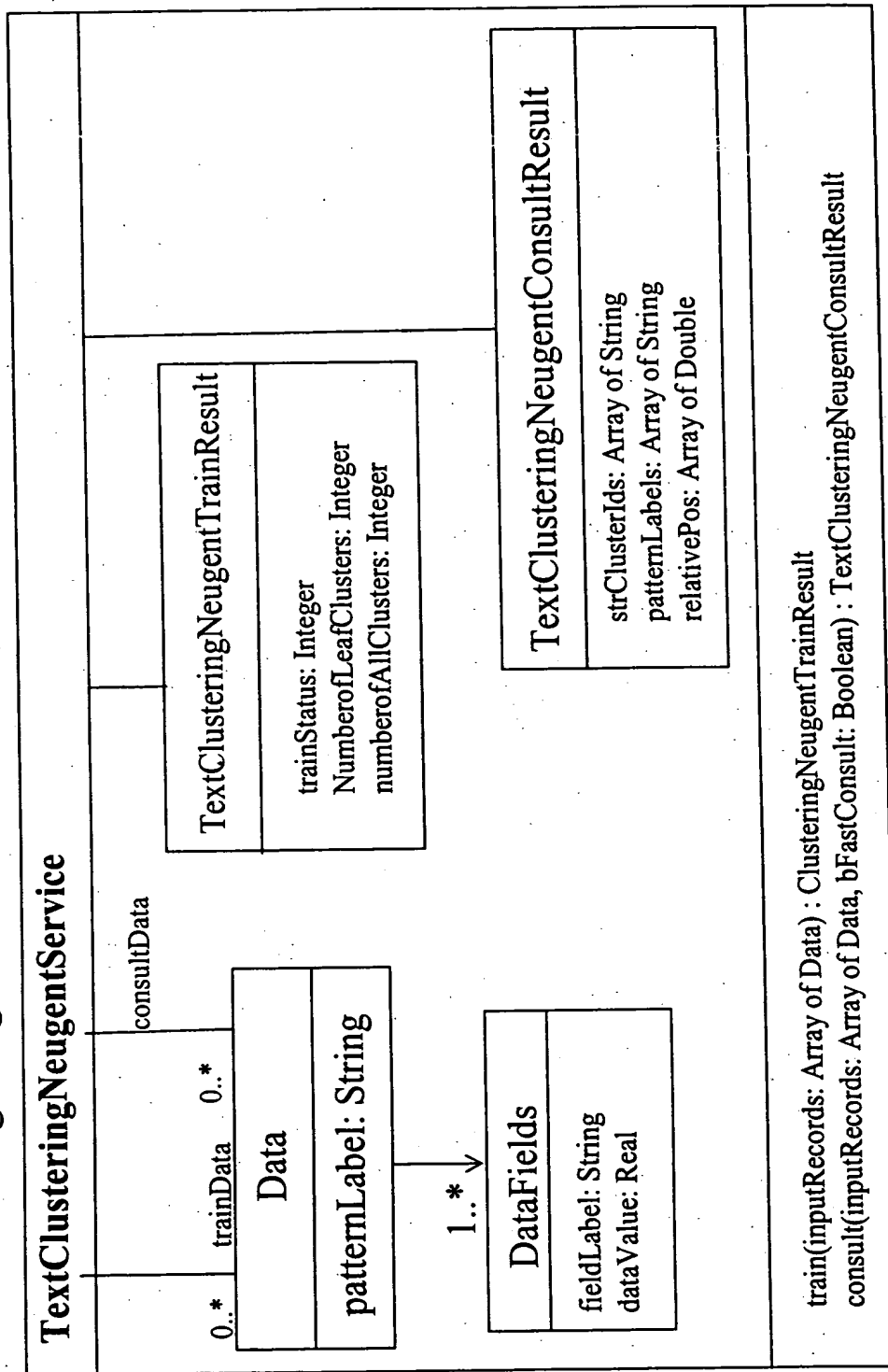
TextCluster
population: Integer
isLeaf: Boolean
strClusterID: String
Center: Array of Double
normalizedCenter: Array of Double
radii: Array of Double
normalizedRadius: Array of Double
memberID: Array of Integer
memberPatternLabel: Array of String
relativePos: Array of Double
clusterMin: Array of Double
clusterMean: Array of Double
clusterStddev: Array of Double
clusterStddevRatio: Array of Double

0..\*

childrenClusters

FIG. 8H

Text Clustering Neugent Web Service Interface **FIG. 8I**



# Decision Neugent

FIG. 8J

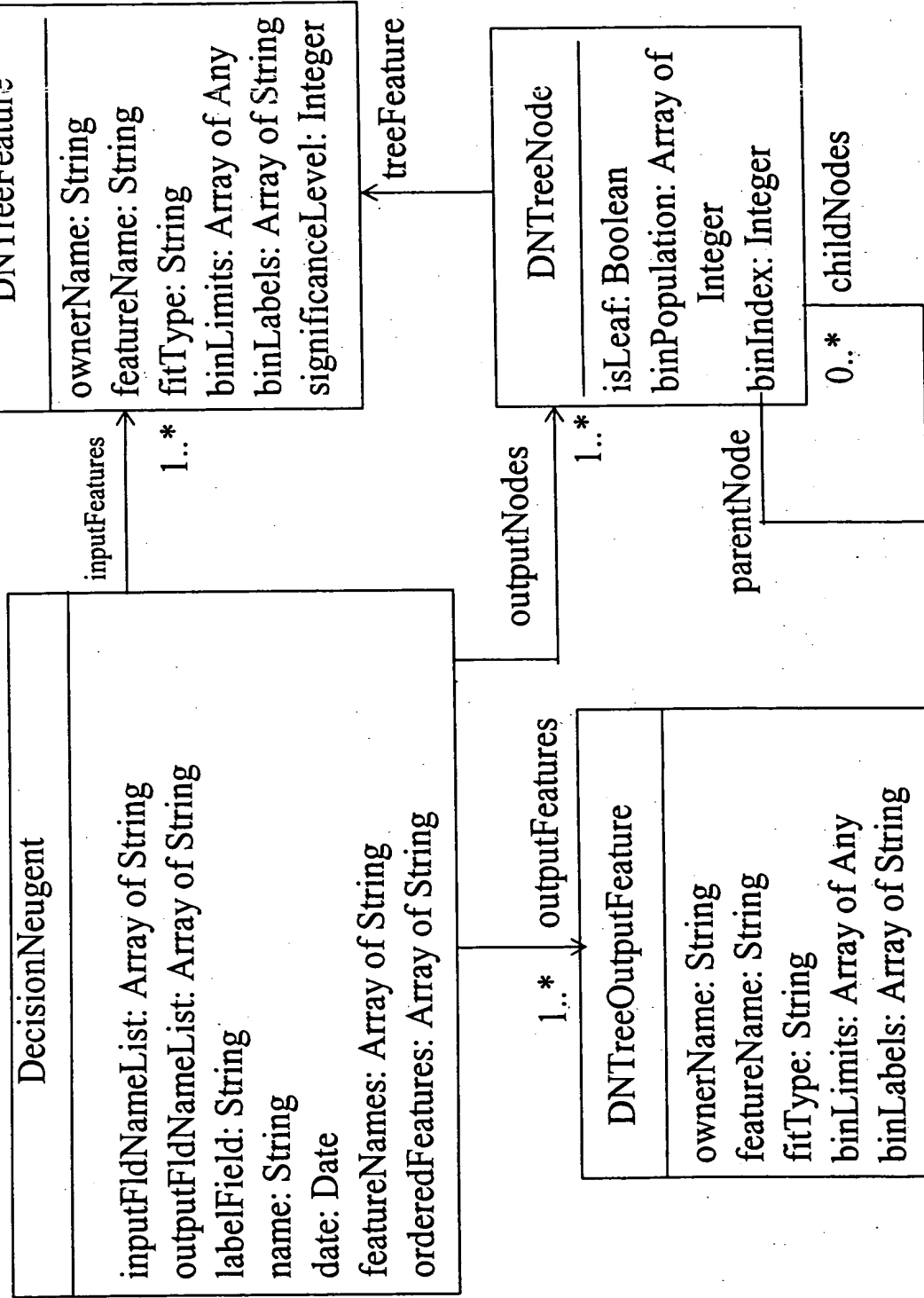
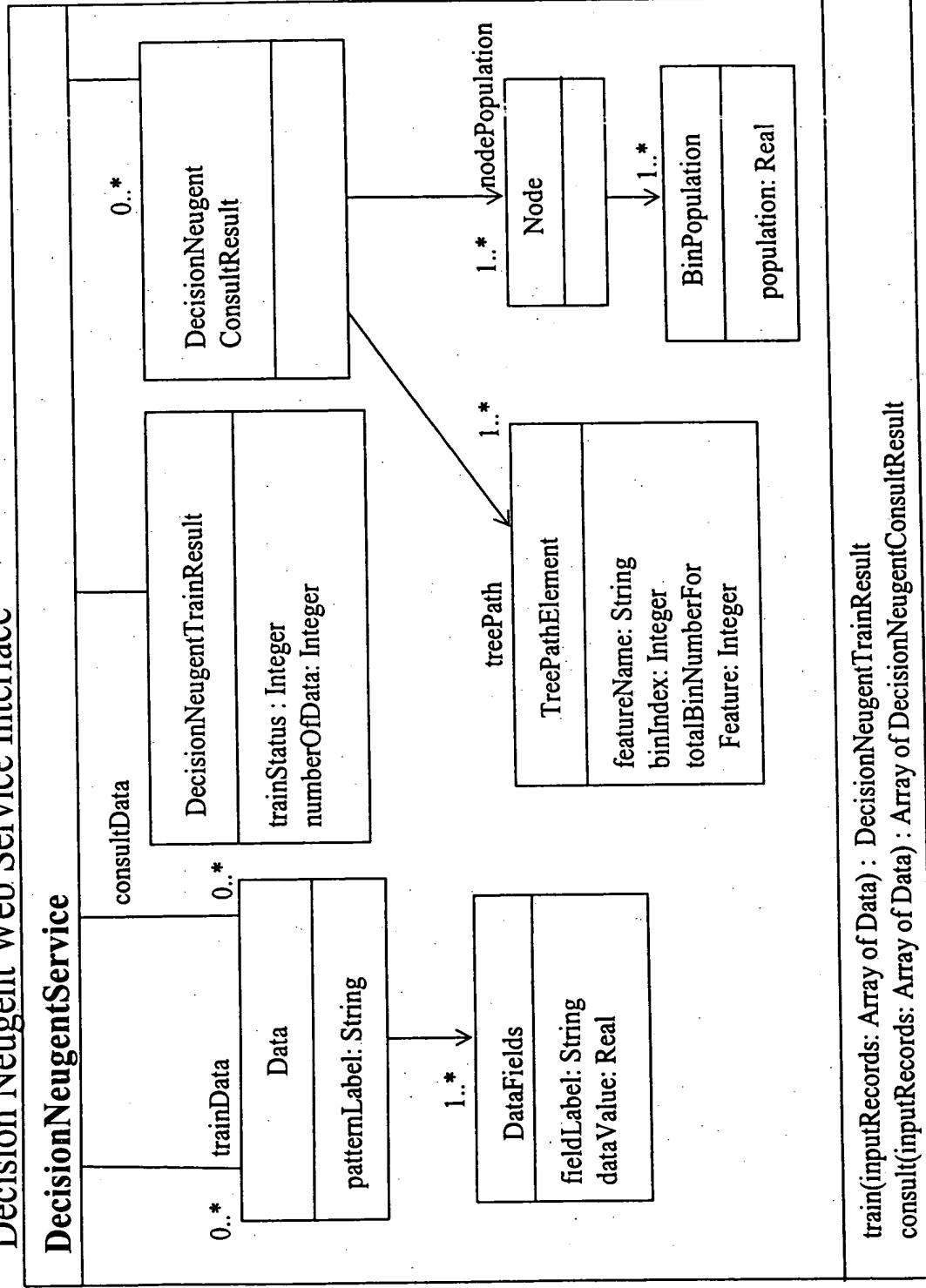
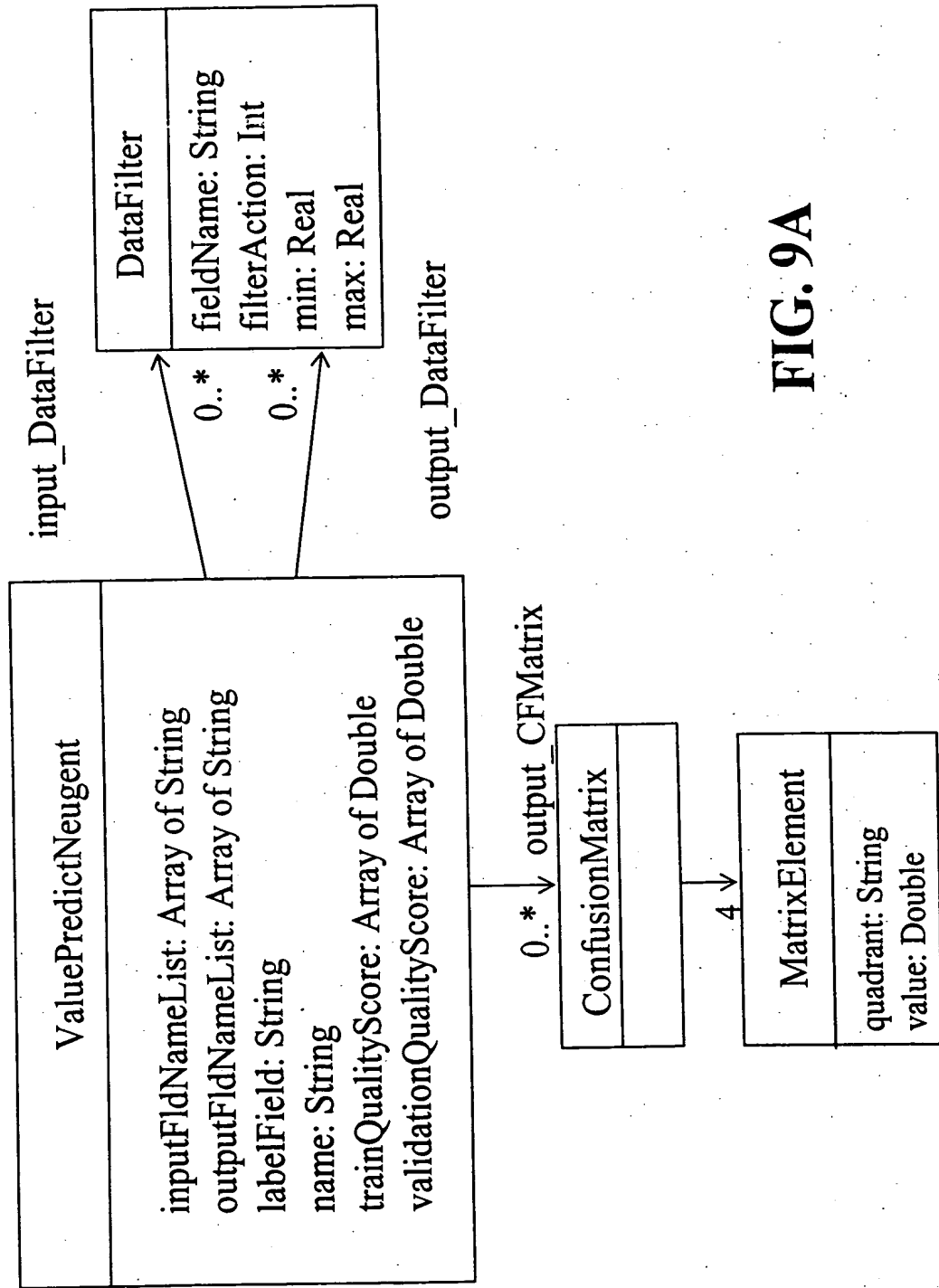


FIG. 8K

# Decision Neugent Web Service Interface





**FIG. 9A**



FIG. 9B

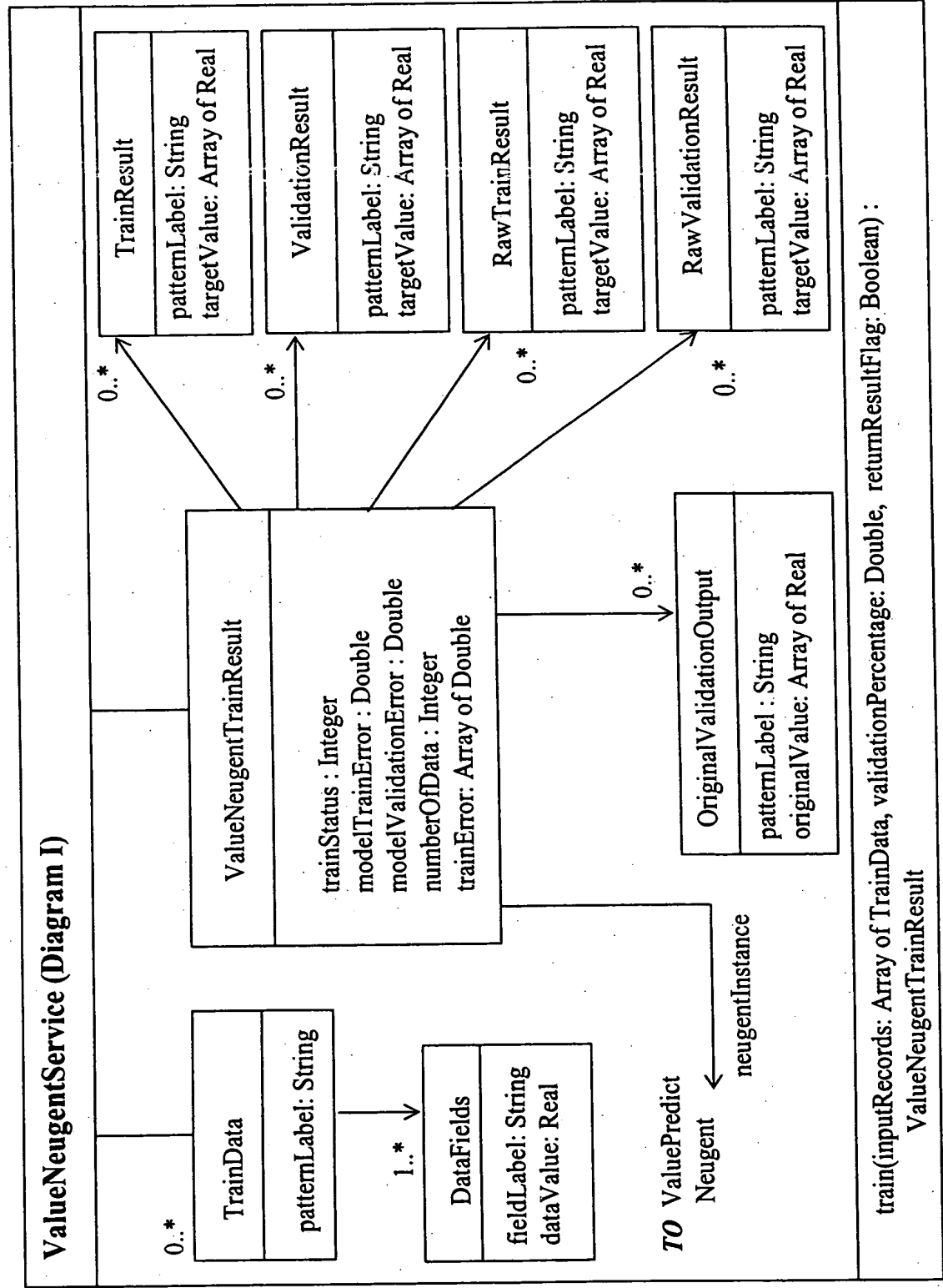
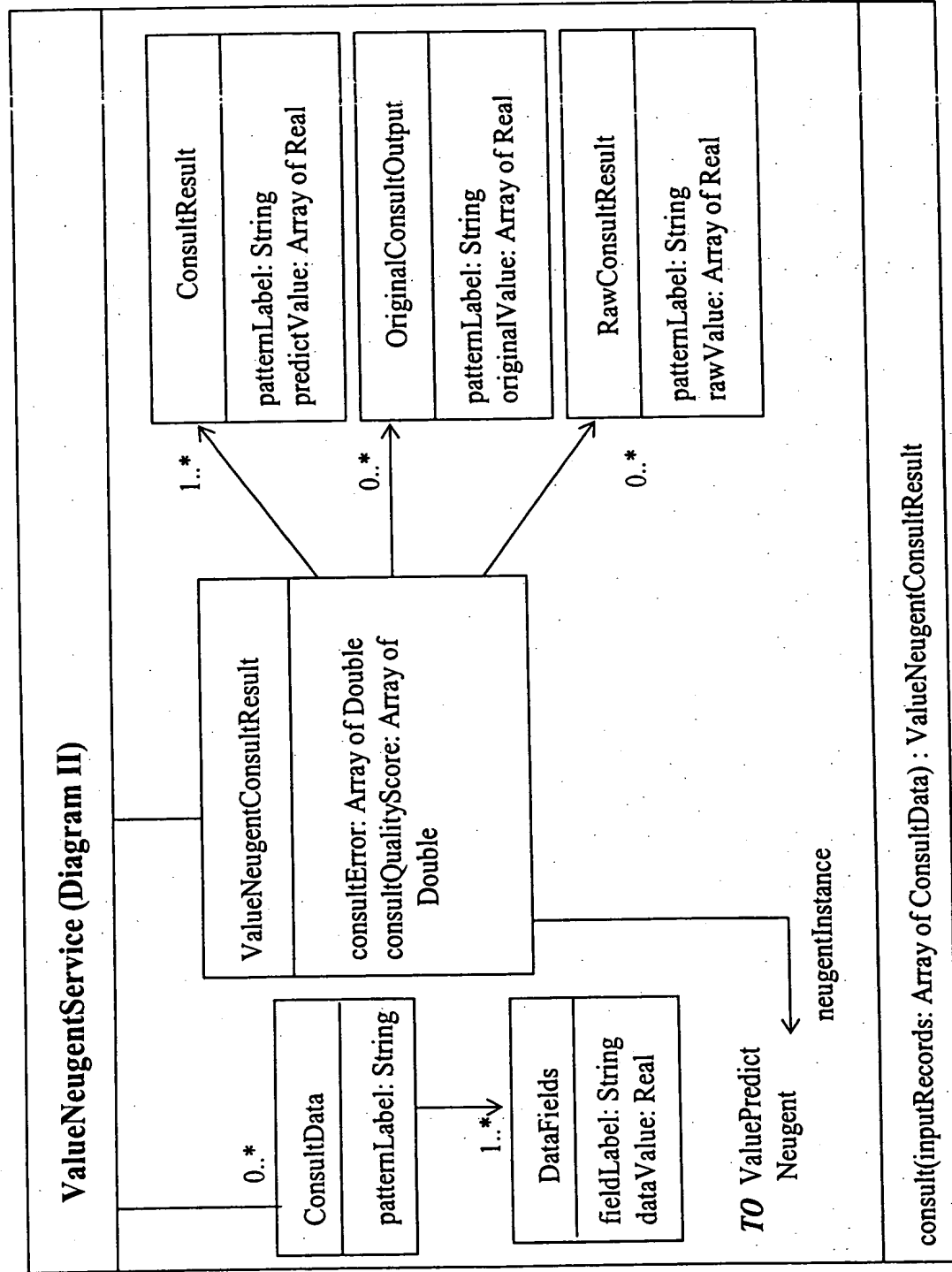


FIG. 9C





# Value Predict Neugent

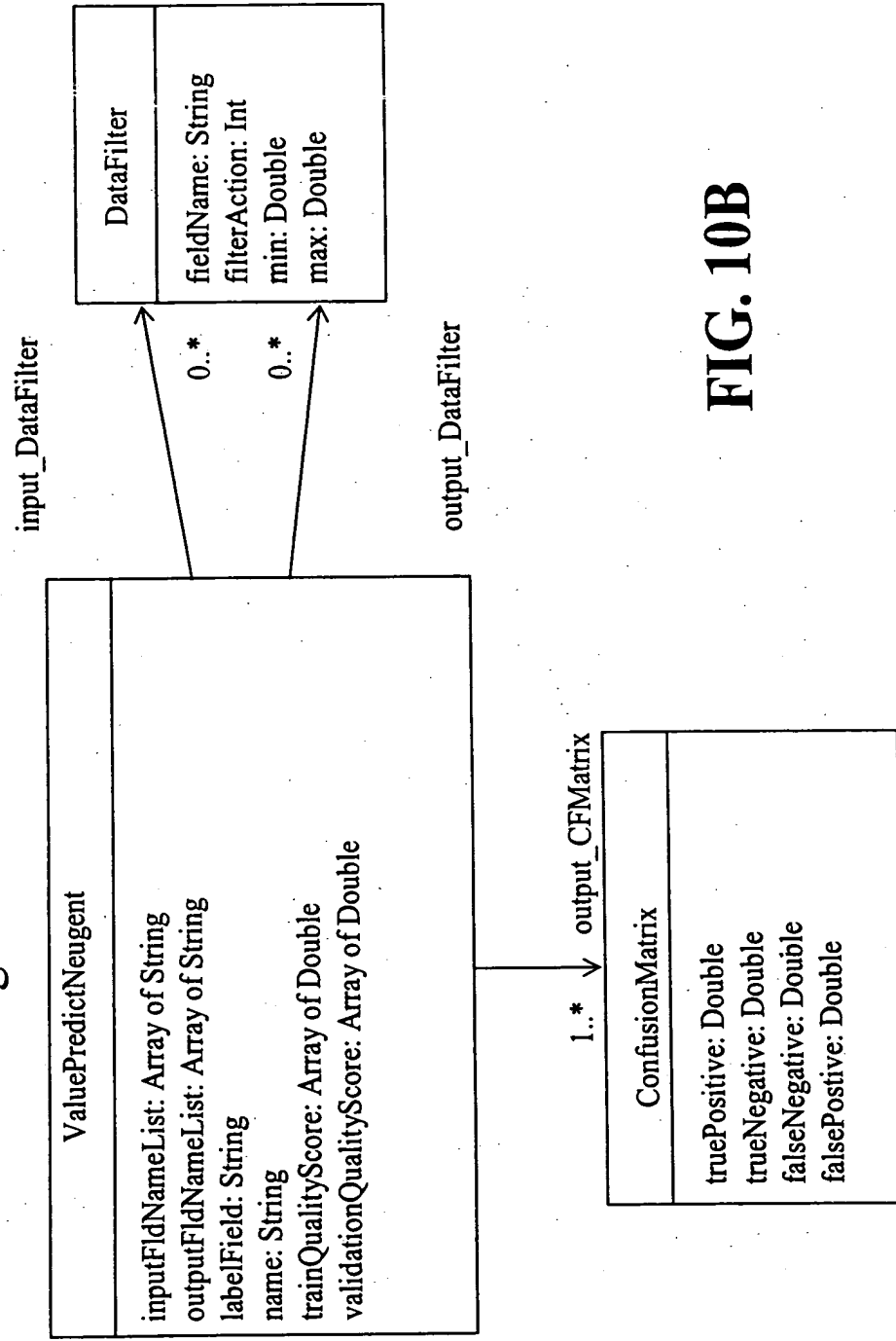
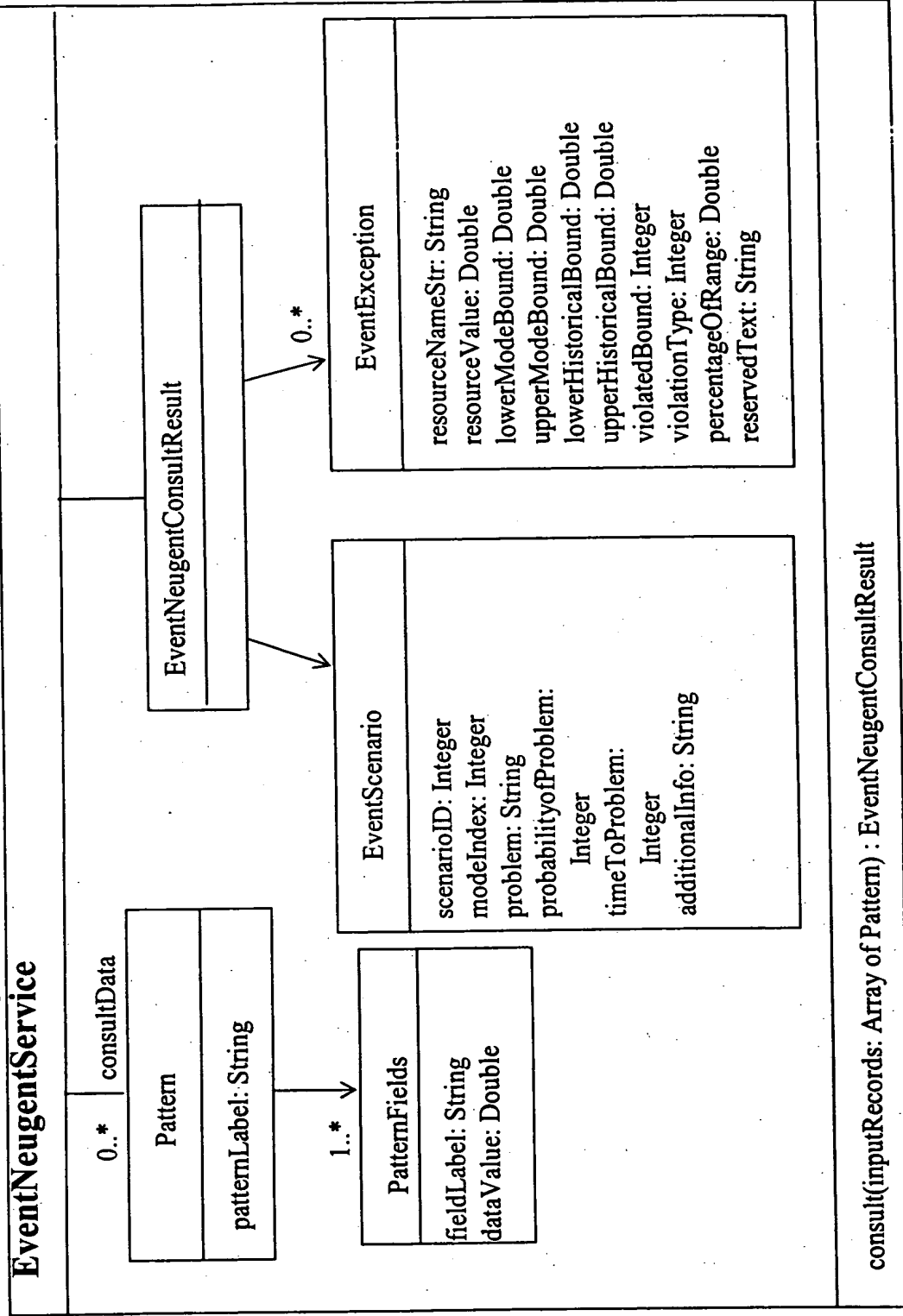


FIG. 10B

FIG. 10C

Event Predict Neugent Web Service Interface



Clustering Neugent Web Service Interface **FIG. 10D**

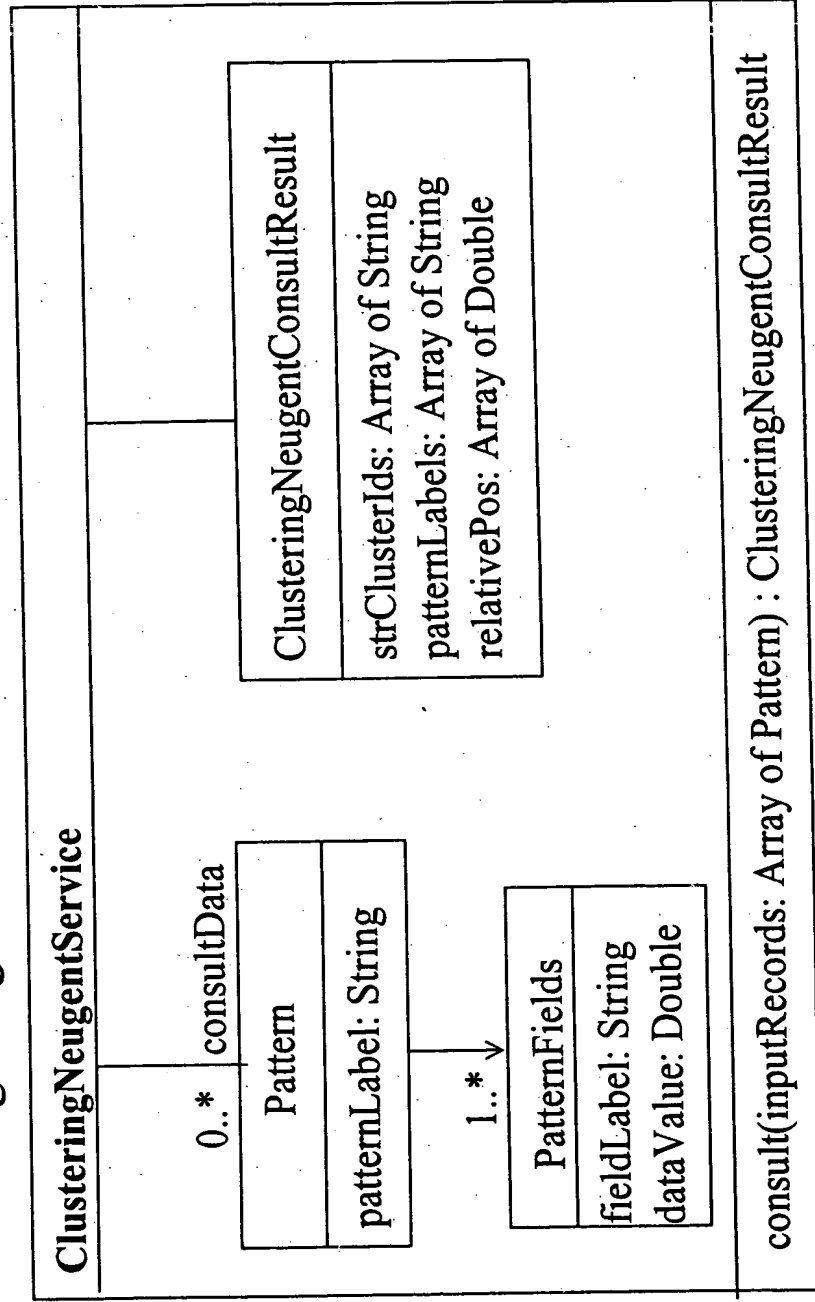


FIG. 10E

Text Clustering Neugent Web Service Interface

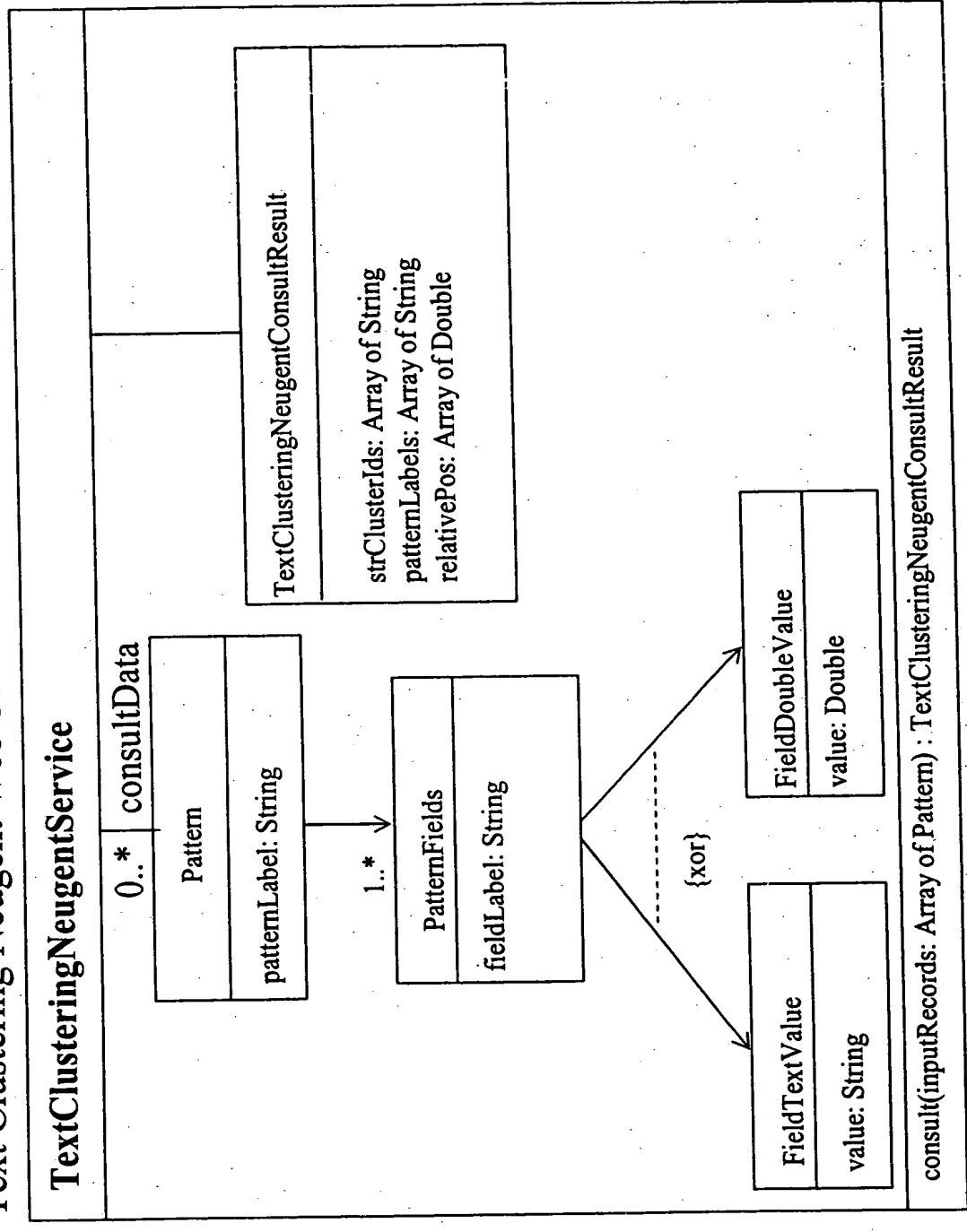


FIG. 10F

Decision Neugent Web Service Interface

